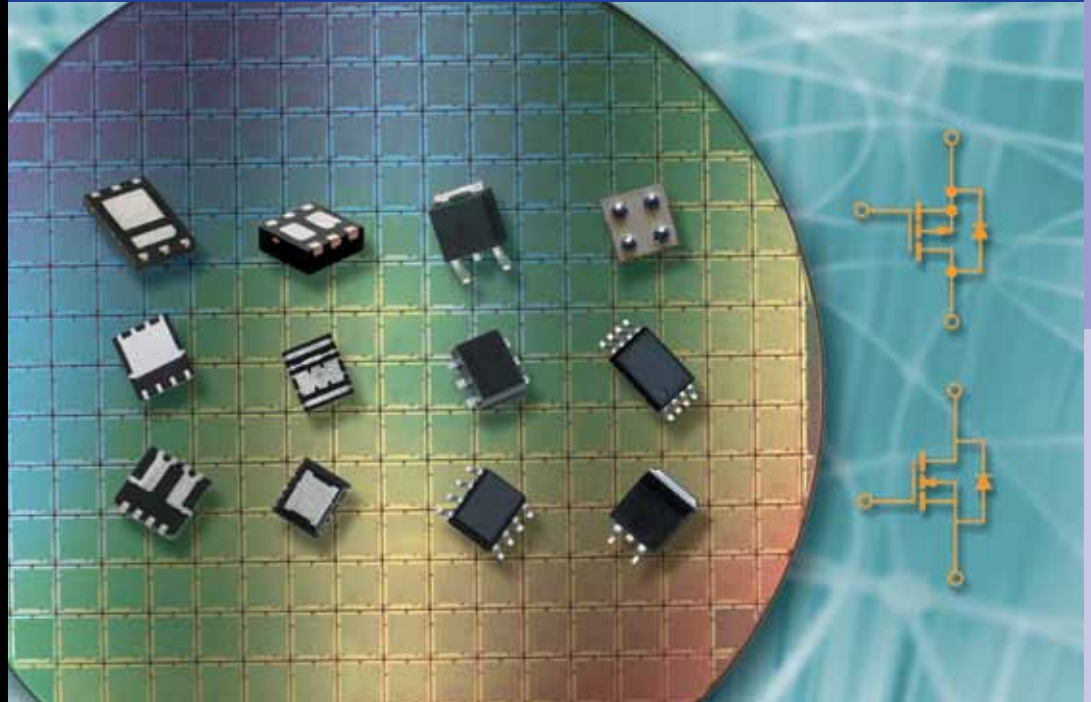




LOW-VOLTAGE POWER MOSFETs



- LITTLE FOOT®
- LITTLE FOOT® *Plus*
- TrenchFET®
- SkyFET®
- TurboFET®
- ChipFET®
- PowerPAK®
- PolarPAK®
- PowerPAIR®
- ThunderFET™

SEMICONDUCTORS

RECTIFIERS

- Schottky (single, dual)
- Standard, Fast and Ultra-Fast Recovery (single, dual)
- Bridge
- Superectifier®
- Sinterglass Avalanche Diodes

HIGH-POWER DIODES AND THYRISTORS

- High-Power Fast-Recovery Diodes
- Phase-Control Thyristors
- Fast Thyristors

SMALL-SIGNAL DIODES

- Schottky and Switching (single, dual)
- Tuner/Capacitance (single, dual)
- Bandswitching
- PIN

ZENER AND SUPPRESSOR DIODES

- Zener (single, dual)
- TVS (TRANSZORB®, Automotive, ESD, Arrays)

FETs

- Low-Voltage TrenchFET® Power MOSFETs
- High-Voltage TrenchFET® Power MOSFETs
- High-Voltage Planar MOSFETs
- JFETs

OPTOELECTRONICS

- IR Emitters and Detectors, and IR Receiver Modules
- Optocouplers and Solid-State Relays
- Optical Sensors
- LEDs and 7-Segment Displays
- Infrared Data Transceiver Modules
- Custom Products

ICs

- Power ICs
- Analog Switches

MODULES

- Power Modules (contain power diodes, thyristors, MOSFETs, IGBTs)

PASSIVE COMPONENTS

RESISTIVE PRODUCTS

- Film Resistors
 - Metal Film Resistors
 - Thin Film Resistors
 - Thick Film Resistors
 - Metal Oxide Film Resistors
 - Carbon Film Resistors
- Wirewound Resistors
- Power Metal Strip® Resistors
- Chip Fuses
- Variable Resistors
 - Cermet Variable Resistors
 - Wirewound Variable Resistors
 - Conductive Plastic Variable Resistors
- Networks/Arrays
- Non-Linear Resistors
 - NTC Thermistors
 - PTC Thermistors
 - Varistors

MAGNETICS

- Inductors
- Transformers

CAPACITORS

- Tantalum Capacitors
 - Molded Chip Tantalum Capacitors
 - Coated Chip Tantalum Capacitors
 - Solid Through-Hole Tantalum Capacitors
 - Wet Tantalum Capacitors
- Ceramic Capacitors
 - Multilayer Chip Capacitors
 - Disc Capacitors
- Film Capacitors
- Power Capacitors
- Heavy-Current Capacitors
- Aluminum Capacitors

Low-Voltage Power MOSFETs Selector Guide

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Vishay Siliconix

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Introduction

Vishay Siliconix Power MOSFETs – Compact and Efficient

Vishay Siliconix leads the industry in the development of power MOS silicon and packaging technologies that boost power management and power conversion efficiency and greatly reduce the board area required for MOSFETs in computers, laptops, notebooks, servers, PDAs, cellular phones, consumer electronics and many other systems.

Vishay Siliconix continually innovates to meet the increasing demands of applications such as dc-to-dc conversion and load switching. For example, our TrenchFET® Gen III power MOSFET silicon technology enables on maximum resistance down to just 1.2 mΩ while improving gate charge. In another example, ThunderFET™ technology brings very low on-resistance to medium-voltage power MOSFETs. In another breakthrough, SkyFET® monolithic MOSFET plus Schottky diode devices lower on-resistance compared to co-packaged devices and reduce power losses linked to the body diode of the MOSFET. The P-Channel TrenchFET Gen III family

of power MOSFETs offers a reduction in on-resistance compared with the previous state-of-the-art and signifies a new opportunity to reduce system power. The Vishay Siliconix portfolio also contains devices with on-resistance ratings down to 1.2 V to reduce the need for level shift circuitry, saving space and power.

Vishay Siliconix packaging innovations include the small outline LITTLE FOOT®, the thermally enhanced PowerPAK®, offered in footprint areas from the SO-8 down to the SC-75, PolarPAK® with double sided-cooling in standard, easy-to-use packaging, and chip-scale MICRO FOOT® families. PowerPAIR® reduces space while still obtaining low on-resistance and high current comparable to two discretes. Each of these package types provides designers with a range of surface-mount options to ensure efficient use of space in power management, power conversion, and other power MOSFET applications.

ThermaSim® is First On-Line Thermal Simulation Tool to Use Finite Element Analysis Models for Increased Accuracy

- Available on <http://www.vishay.com/thermal-modelling> with exhaustive library of Vishay Siliconix MOSFET models
- Can include effects of other heat dissipating components
- Allows user to configure:
 - Power dissipation profiles
 - Heat sink size, material, and attachment method
 - PCB size, layers, material, copper spreading, vias, etc.
 - Component placements and solder quality
 - System temperature and air flow
- Simulation results are emailed directly to the designer and can be downloaded into Excel.

Vishay's new ThermaSim is a free tool that helps designers speed time to market by allowing detailed thermal simulations of Vishay Siliconix power MOSFETs to be performed before prototyping. Applicable to any power MOSFET application, ThermaSim will be especially useful in high-current, high-temperature applications such as automotive, fixed telecom, desktop and laptop computers, and industrial systems.

Simulation results are emailed directly to the designer and can be downloaded into Excel. Multiple results with varying product, package, or other input data can be merged within Excel to compare and examine trends. Thermal images are provided, and a MPEG video clip of the thermal image with transient simulation is also available. Simulations can be saved for modifications at a later date.

ThermaSim has been enhanced to increase accuracy, efficiency and user-friendliness:

Enhanced simulation accuracy:

- Component pads/footprints are separated from the component model
- Higher internal/external meshing resolution





- New features:
 - Users can now define and evaluate impact of solder thickness (from 100 % to 150 % of the nominal thickness of 0.1 mm)
 - Users can now define the thermal glue thickness between the component and a heat sink
 - Component model accounts for the air gap between the component and PCB surface where applicable
- Additional materials for PCBs, heat sinks, and the thermally conducting insulators

Improved simulation efficiency:

- Improved meshing methods
- Smaller pdf file sizes

Improved user friendliness:

- Features several completed examples that can be downloaded to user environment, modified, saved, and used
- Offers user tips
 - Parametric range limits and prevents wrong inputs
- Allows selection of steady-state, transient, or RC network simulations
- Better selection/manipulation:
 - Same component in different location on PCB
 - Select/Edit internal PCB layers from side-view picture
 - Select/Edit via zones from top-view picture
 - Select/Edit solder thickness
- Better documentation capabilities:
 - An expandable summary tree of the entire simulation is provided just before running the simulation
 - The filename and defined commenting text field are feedback on the simulation results

Getting the Most Out of Your Selection and Design Process

This Selector Guide is organized by functionality, packaging (largest to smallest), breakdown voltage, and on-resistance ($R_{DS(on)}$ at 4.5 V). There is also an alphanumerically ordered listing with specifications. Although this Selector Guide is a convenient way to view the entire Vishay Siliconix Power MOSFET portfolio, we highly recommend that you visit our website, which is refreshed at least weekly, for the most up-to-date information.

Additionally, the power of the web allows us to enhance your selection and design-in process. Besides being able to click on the function, key specifications, and size of MOSFET that you are looking for, there is also a parametric search engine. Either will give you a list of possible datasheets

integrated with a table of key specifications. From here you can click on any of the datasheets and “bundle” it with the related documents and drawings that you will need such as package, tape and reel and pad drawings, SPICE models, reliability information, and part marking.

Other web information includes application notes, a list of technical papers, and Selector Guides. Further, samples can be ordered and technical questions can be asked through the website.

Please take the time to review our web features and visit <http://www.vishay.com/mosfets>.

Overview of Website

Check out <http://www.vishay.com/mosfets>:

Selectors and datasheets for latest products

P-Channel Technology Cuts $R_{DS(on)}$ Up to Half
TrenchFET® Gen III P-Channel Power MOSFETs

- Sub 2 mΩ p-channel MOSFET in SO-8 footprint area
- Package sizes down to 1.6 mm x 1.6 mm PowerPAK® SC-75

MOSFETs

Vishay is the world's number-one manufacturer of low-power MOSFETs. The Vishay Siliconix devices in more than 30 package types, including the chip-scale MICRO FOOT® and thermal Configuration options include co-packaged and single-die MOSFET plus Schottky diode combinations. PowerPAIR® devices that combine optimized high- and low-side MOSFETs for synchronous buck converters in a single package.

Parametric Search
On-line datasheet search engine by user-customized parameters

Online Selector Guide

Related drawings and documents

- More content
- Refreshed weekly



Sample Datasheet List

Build Vishay into your Design

SEARCH

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HOME
PRODUCTS
APPLICATIONS
COMPANY INFO

Products » MOSFETs » 1.2 V rated on-resistance

MOSFETS - 1.2 V RATED ON-RESISTANCE

CONTACT US

Sales, Technical Questions... Go

BUY NOW

Check Distributor Stock:

Go

Enter Part Number

Latest Press Release +

Related Information +

Reset table to default Undo last action

All 11 datasheets shown. Click the buttons to sort and filter the table.

Series	Package	Configuration	Channel	V _{DS} (V)	V _{GS} (V)	r _{DS(on)} @ 4.5 V (Ohms)	r _{DS(on)} @ 2.5 V (Ohms)	r _{DS(on)} @ 1.8 V (Ohms)	r _{DS(on)} @ 1.5 V (Ohms)	r _{DS(on)} @ 1.2 V (Ohms)	Q _g @ 4.5 V (nC)	Q _{gs} (nC)	Q _{gd} (nC)	I _D Max. (A)	P _D Max. (W)	V _{GS(th)}	R _g Typ.	
							Filter and Sort											
Si8445DB	MICRO FOOT 1.2 x 1	SINGLE	P	-20	5	0.084	0.1	0.12	0.155	0.495	9.5	0.9	2.2	9.8	11.4	0.35	5.5	
Si8441DB	MICRO FOOT 1.5 x 1	SINGLE	P	-20	5	0.08	0.102	0.128	0.198	0.6	7.7	0.85	1.6	10.5	13.0	0.35	6.2	
Si8429DB	MICRO FOOT 1.6 x 1.6	SINGLE	P	-8	5	0.035	0.042	0.052	0.069	0.098	21.0	1.8	3.7	11.7	6.25	0.35	22.0	
Si8424DB	MICRO FOOT 1.6 x 1.6	SINGLE	N	8	5	0.031	Key parameters help you choose which datasheet to click on				3.5	1.8	12.2	6.25	0.35	13.0		
SiA419DJ	PowerPAK SC-70	SINGLE	P	-20	5	0.03	2.1	5.2	12.0	19.0	0.35	9.0						
SiA417DJ	PowerPAK SC-70	SINGLE	P	-8	5	0.023	0.031	0.04	0.058	0.095	19.0	2.2	5.0	12.0	19.0	0.35	8.0	
SiA414DJ	PowerPAK SC-70	SINGLE	N	8	5	0.011	0.013	0.016	0.022	0.041	19.0	2.5	6.5	12.0	19.0	0.35	2.5	
SiB914DK	PowerPAK SC-70	SINGLE	P	-8	5	0.023	0.031	0.04	0.058	0.095	19.0	2.2	5.0	12.0	19.0	0.35	8.0	
SiB417EDK	PowerPAK SC-70	SINGLE	P	-8	5	0.023	0.031	0.04	0.058	0.095	19.0	2.2	5.0	12.0	19.0	0.35	8.0	
SiB414DK	PowerPAK SC-70	SINGLE	P	-8	5	0.023	0.031	0.04	0.058	0.095	19.0	2.2	5.0	12.0	19.0	0.35	8.0	
Si1499DH	SC70-6	SINGLE	P	-8	5	0.078	0.095	0.115	0.153	0.424	10.5	1.3	1.9	1.6	2.78	0.35	9.5	

Products | Company | Press | Investors | Contacts | Acquired Manufacturers | Privacy & Legal | Your Account



Sample of Datasheet with Related Documents

VISHAY. Build Vishay into your Design

SEARCH Part Number/Keyword
English • 日本語 • 简体中文 Submit

PRODUCTS APPLICATIONS COMPANY INFO

Products » MOSFETs » Si8445DB

Si8445DB product information

P-Channel 20-V (D-S) MOSFET

Si8445DB Datasheet

Si8445DB Press Release

Check all PDF documents

Documents

Datasheet

- Si8445DB

Markings

- PART MARKING - MICRO FOOT Devices

RC Thermal Models

- Si8445DB-RC - RC Thermal Model for Si8445DB
- Si8445DB_RC - R-C Thermal Model Parameters

Reel Info

- Reel Information - Lok Reel

Reliability Data

- Silicon Technology Reliability Operating Life Test Result

Tape Info

- 93-5258-X - Tape Drawing for MICRO FOOT 2x2, 0.5 mm Pitch, 0.25 Bump Height
- Device Orientation-MICRO FOOT? Packages - Device Orientation for MICRO FOOT 2x2, 0.5 mm Pitch, 0.25 Bump Height
- PACK-0023-11 - Device Orientation for MICRO FOOT 2x2, 0.5 mm pitch, 0.250 mm bump height (T2)

Spice Model (pdf)

- Si8445DB-DS - DS-Spice Model for Si8445DB

H-Spice Model

- Si8445DB-H - H-Spice Model for Si8445DB

P-Spice Model (*.lib)

- Si8445DB-P LIB - LIB for P-Spice Model for Si8445DB

P-Spice Model (*.olb)

- Si8445DB-P OLB - OLB for P-Spice Model for Si8445DB

P-Spice Model (*.txt)

- Si8445DB-P - P-Spice Model for Si8445DB

[Combine Checked Documents Into One PDF](#)

Product Support

Sample Request

If you haven't already registered, you must register to submit a request.

* = required

* Part Number: Si8445DB-T2-E1
Part Description: P-CHANNEL 20V (D-S) MOSFET
DocID: 69984

* Quantity:
* Project Name:
* Estimated Annual Use:
Customer Material Number:
Start of Production: Mo: Yes:
Notes:

Technical Questions

Vishay engineers can answer questions about product quality, performance, and specifications.

If you haven't already registered, you must register to submit a request.

* Subject: Si8445DB datasheet
* Message:

CONTACT US

Sales, Technical Questions...

BUY NOW

Check Distributor Stock:

Enter Part Number

How To Get

Service and Support

- Samples
- Design Support Tools
- Video Library
- Counterfeit Product Statement
- Contact Information

Product Information and Literature

- Award Winning Products
- Lead-Free/RoHS/Reach Status
- Databooks On-line
- Technical Library
- Super 12 Featured Products
- Product Change Notifications (PCNs)

Order samples

Ask a technical question

One PDF with all documents

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Example of Parametric Search

The screenshot shows the Vishay Parametric Search interface. At the top, there is a search bar with the text "SEARCH" and a "Submit" button. Below the search bar, there are navigation tabs for "PRODUCTS", "APPLICATIONS", and "COMPANY INFO". The main content area is titled "Specify values to narrow results at right" and contains several parameter selection controls. Each control consists of a vertical slider with a list of values and a "Reset" button. The parameters shown are: Qg @ 10 V, Qg @ 4.5 V, Channel, Qgd, VDS, rDS(on), VGS, ID Max., PD Max., Qg Typ., and VGS(th). The rDS(on) control is unique, featuring input fields for "Minimum:" and "Maximum:" values, an "Update" button, and "Available Values" fields for "Lowest:" and "Highest:" values. On the right side, there is a "Results" section showing "5 Datasheets:" with a list of part numbers: SI728DF, SI7768DP, SI7224DN, SI5402BDC, and SI7218DN. A "compare results" button is located below the list. A blue callout box with a white border and a pointer to the "compare results" button contains the text: "2. Go to list of datasheets with key specification table". Another blue callout box with a white border and a pointer to the "Reset" button of the VDS parameter control contains the text: "1. Select desired parameters". At the bottom of the page, there is a footer with links: "Products | Company | Press | Investors | Contacts | Acquired Manufacturers | Privacy & Legal | Your Account".

2. Go to list of datasheets with key specification table

1. Select desired parameters

Products by Function

Part Number	Ch	V _{DS} (V)	V _{GS} (V)	V _F (V)	I _F (A)	R _{DS(on)} Ω						Footnote	I _D (A)	Q _g (nC)		P _D (W)
						V _{GS} = 10 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
SINGLE PLUS INTEGRATED DIODE																
PowerPAK SC-70																
SiA850DJ		190	16	1.2	0.5		3.8		4.2	17			0.95	3	1.4	7
SINGLE PLUS INTEGRATED SCHOTTKY																
PowerPAK SO-8																
Si7758DP		30	20			0.0029	0.0038						60	105	46	104
Si7742DP		30	20			0.0035	0.0045						60	75	34	83
Si7774DP		30	20			0.0038	0.0047						60	44	21.5	48
Si7748DP		30	20			0.0048	0.0066						50	61	27.8	56
Si7772DP		30	20			0.013	0.0165						35.6	18.5	8.3	29.8
PolarPAK																
SiE726DE		30	20			0.0024	0.0033						60	105	50	125
SO-8																
Si4628DY		30	20			0.003	0.0038						38	58	27.5	7.8
Si4638DY		30	20			0.0065	0.008						22.4	66.5	27.5	5.9
Si4636DY		30	16	0.4	2	0.0085	0.0105						17	40	18.8	4.4
Si4396DY		30	20	0.4	2	0.0115	0.016						16	29.6	13.3	5.4
Si4712DY		30	20			0.013	0.0165						14.6	18.5	8.3	5
Si4812BDY		30	20	0.5	1	0.016	0.021				b	9.5		8.5	2.5	
Si4620DY		30	20	0.5	3	0.035	0.052					7.5	8.6	4.2	3.1	
PowerPAK 1212-8																
Si7726DN		30	20			0.0095	0.0125						35	28.5	12.5	52
Si7720DN		30	20			0.0125	0.015						12	30	13.7	52
1206-8 ChipFET																
Si5856DC		20	8				0.04		0.045	0.052			5.9		5	2.1
PowerPAK SC-70																
SiA814DJ		30	12	0.6	1	0.061	0.072		0.11				4.5	7	3.2	6.5
PowerPAK SC-75																
SiB800EDK		20	6				0.225		0.27	0.345	0.96		1.5		1.1	3.1
ASYMMETRIC DUAL N PLUS INTEGRATED SCHOTTKY																
PowerPAK SO-8																
Si7980DP	1	20	16			0.022	0.025						8	17.5	8	19.8
	2	20	16			0.015	0.019						8	22.5	10.3	21.9

Notes:

- | | | | |
|--|---|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{DS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



Products By Function, continued

Part Number	Ch	V _{DS} (V)	V _{GS} (V)	V _F (V)	I _F (A)	R _{DS(on)} Ω						Footnote	I _D (A)	Q _g (nC)		P _D (W)
						V _{GS} = 10 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
PowerPAK SO-8, continued																
Si7872DP	1	30	20			0.022	0.03						10		7	3.5
	2	30	12	0.5	1	0.022	0.028						10		11.5	3.5
SO-14																
Si4340CDY	1	20	20			0.0094	0.0125						14.1	21	9.6	3
	2	20	16			0.008	0.0095						20	31	14.1	5.4
SO-8																
Si4670DY	1	25	16			0.023	0.028						8	12	5.5	2.8
	2	25	16	0.4	1	0.023	0.028						8	12	5.5	2.8
Si4622DY	1	30	20			0.016	0.0186						8	40	19	3.3
	2	30	16			0.0264	0.029						8	13.2	6	3.1
Si4618DY	1	30	16			0.017	0.0195						8	29	12.5	1.98
	2	30	16			0.01	0.0115						15.2	39	17	4.16
Si4816BDY	1	30	20			0.0185	0.0225					b, k	6.8		7.8	1.4
	2	30	20	0.5	1	0.0115	0.016					b, k	11.4		11.6	2.4
Si4916DY	1	30	20			0.018	0.023						10		6.6	3.3
	2	30	20	0.5	1	0.018	0.022						10.5		8.9	3.5
Si4830CDY	1	30	20	0.5	1	0.02	0.025						8	16.5	7.3	2.9
	2	30	20			0.02	0.025						8	16.5	7.3	2.9
Si4914BDY	1	30	20			0.021	0.027						8.4		6.7	2.7
	2	30	20			0.02	0.025						8		7	3.1
SINGLE P PLUS INTEGRATED SCHOTTKY																
SO-8																
Si4823DY		- 20	12	0.6	1		0.108		0.175				4.1	8	4	2.8
Si4829DY		- 20	12	0.4	1		0.215		0.32				2	5.2	2.6	3.1
PowerPAK 1212-8																
Si7703EDN		- 20	12				0.048		0.068	0.09			6.3		12	2.8
TSOP-6																
Si3805DV		- 20	12	0.5	1	0.084	0.108		0.175				3.3	8	4	1.4
PowerPAK ChipFET																
1206-8 ChipFET																
Si5853DDC		- 20	8	0.5	0.5		0.105		0.143	0.188			4		4.7	3.1
Si5913DC		- 20	12	0.5	1	0.084	0.108		0.175				4	8	4	3.1

Notes:

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| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |

Low-Voltage Power MOSFETs Selector Guide



Vishay Siliconix

Products By Function, continued

Part Number	Ch	V _{DS} (V)	V _{GS} (V)	V _F (V)	I _F (A)	R _{DS(on)} Ω						Footnote	I _D (A)	Q _g (nC)		P _D (W)
						V _{GS} = 10 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
1206-8 ChipFET, continued																
Si5855CDC		-20	8	0.4	1		0.144		0.18	0.222			3.7	4.5	4.1	2.8
PowerPAK SC-70																
SiA811ADJ		-20	8	0.5	1		0.116		0.155	0.205			4.5		4.9	6.5
LEVEL SHIFT																
TSOP-6																
Si3865CDV		-12					0.06		0.095	0.13			2.8			0.83
Si3861BDV		-20	8			0.075	0.145						2.3			0.83
SC70-6																
Si1869DH		-20	8				0.165		0.222	0.303			1.2			1
SC89-6																
Si1040X		-8					0.625		0.89	1.25			4.3			0.174
COMMON DRAIN																
TSSOP-8																
Si6968BEDQ		20	12				0.022		0.03				6.5		12	1.5
Si6924AEDQ		28	14				0.033	0.038	0.042			e	4.6		6.5	1.3
PowerPAK 1212-8																
Si7900AEDN		20	12				0.026		0.03	0.036			8.5		10.5	3.1
MICRO FOOT																
MICRO FOOT 2.4 x 1.6																
Si8902EDB		20	12				0.0225	0.024	0.0285	0.036		c, f	5			1.7
Si8901EDB		-20	12				0.03		0.04	0.0525		c	4.4			1.7
ASYMMETRIC DUAL																
PowerPAK SO-8																
Si7998DP	1	30	20				0.0093	0.0124					25	17	8.2	22
	2	30	20				0.0053	0.007					30	32	15.3	40
SO-8																
Si4276DY	1	30	20				0.0153	0.0184					8	17.2	8.4	3.6
	2	30	20				0.028	0.034					8	7.3	3.6	2.8
PowerPAIR 6 x 3.7																
SiZ700DT	1	20	16				0.0086	0.0108					16	20	9.5	2.36
	2	20	16				0.0058	0.0066					16	55	27	2.8

Notes:

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| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{DS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



Products By Function, continued

Part Number	Ch	V _{DS} (V)	V _{GS} (V)	V _F (V)	I _F (A)	R _{DS(on)} Ω						Footnote	I _D (A)	Q _g (nC)		P _D (W)
						V _{GS} = 10 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
PowerPAIR 6 x 3.7, continued																
SiZ702DT	1	30	20			0.012	0.0145						16	14	6.8	27
	2	30	20			0.012	0.0145						16	14	6.8	30
PowerPAK 1212-8																
SiZ224DN	1	30	16			0.035	0.042						6	9.5	4.5	17.8
	2	30	20			0.028	0.035						6	12	5.5	23
PowerPAK SC-70																
SiA778DJ	1	12	8				0.029		0.034	0.044	0.065		4.5		5.6	6.5
	2	20	6				0.225		0.27	0.345	0.96		1.5		1.1	5

Notes:

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| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



N-Channel

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω							Footnote	I _b (A)	Q _g (nC)		P _D (W)	
			V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V			V _{GS} = 1.2 V	V _{GS} = 10 V		V _{GS} = 4.5 V
SINGLE N															
T0-220															
SUP90N03-03	30	20	0.0029		0.0033							90	171	81.5	187
SUP85N03-3m6P	30	20	0.0036		0.0044							85	67		78.1
SUP50N03-5m1P	30	20	0.0051		0.0063							50	44	21.7	59.5
SUP90N04-3m3P	40	20	0.003		00.41							90	87	250	125
SUP90N06-5m0P	60	20	0.005									90	105		300
SUP90N06-6m0P	60	20	0.006									90	78.5		272
SUP60N06-12P	60	20	0.012									60	33		100
SUP90N08-4m8P	75	20	0.0048	0.0085							d	90	105		300
SUP90N08-6m8P	75	22	0.0068									90	75		272
SUP90N08-7m7P	75	20	0.0077									90	69		208.3
SUP90N08-8m2P	75	20	0.0082									90	58		150
SUP90N10-8m8P	100	20	0.0088									90	97		300
SUP85N10-10P	100	20	0.01									85	77		227
SUP60N10-18P	100	20	0.0183	0.023							r	60	48		150
SUP40N10-3Q	100	20	0.03	0.034							d	40	35		107
SUP90N15-18P	150	20	0.018									90	64		375
SUP28N15-52	150	20	0.052	0.06							d	28	33		120
SUP57N20-33	200	20	0.033									57	90		300

Notes:

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| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



N-Channel, continued

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)	
			V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V		
TO-220, continued																
SUP36N20-54P	200	25	0.053/0.054									s	36	57		166
SUP40N25-60	250	30	0.06	0.064								d	40	95		300
D ² PAK (TO-263)																
SUM60N02-3m9P	20	20	0.0039		0.0052								60		33	120
SUM40N02-12P	20	20	0.012		0.026								40		7.5	83
SUM90N03-2m2P	30	20	0.0022		0.0027								90	171	81.5	250
SUM110N03-04P	30	20	0.0042		0.0065								110		40	120
SUM85N03-06P	30	20	0.006		0.009								85	48		100
SUM110N04-2m1P	40	20	0.0021		0.0024								110	240		312
SUM110N04-05H	40	20	0.0053										110	95		150
SUM70N04-07L	40	20	0.0074		0.011								70	50		107
SUM110N06-3m4L	60	20	0.0034		0.0041								110	200		375
SUM90N06-4m4P	60	20	0.0044										90	105		300
SUM90N06-5m5P	60	20	0.0055										90	78.5		272
SUM75N06-09L	60	20	0.0093		0.0135								75	47		125
SUM90N08-4m8P	75	20	0.0048	0.0085								d	90	105		300
SUM90N08-6m2P	75	20	0.0062										90	75		272
SUM110N08-07P	75	20	0.007										110	69		208.3
SUM90N10-8m2P	100	20	0.0082										90	97		300

Notes:

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|--|--|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{DS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |

Low-Voltage Power MOSFETs Selector Guide



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N-Channel, continued

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
			V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
D ² PAK (TO-263), continued															
SUM60N10-17	100	20	0.0165	0.019							d	60	65		150
SUM40N10-30	100	20	0.03	0.034							d	40	35		107
SUM75N15-18P	150	20	0.018									75	64		312.5
SUM40N15-38	150	20	0.038	0.042							d	40	38		166
SUM23N15-73	150	20	0.073	0.077							d	23	22		100
SUM65N20-30	200	20	0.03									65	90		375
SUM27N20-78	200	20	0.078	0.083							d	27	40		150
SUM09N20-270	200	20	0.27	0.3							d	9	11		60
SUM45N25-58	250	30	0.058	0.062							d	45	95		375
SUM18N25-165	250	20	0.165									18	30		150
DPAK (TO-252)															
SUD50N02-04P	20	20	0.0043		0.006							34		40	136
SUD50N02-06P	20	20	0.006		0.0095							50		19	65
SUD50N02-09P	20	20	0.0095		0.017							20		10.5	39.5
SUD50N03-06AP	30	20	0.0057		0.0078							90	62	30	83
SUD50N03-12P	30	20	0.012		0.0175							47		13	46.8
SUD50N04-8m8P	40	20	0.0088		0.0105							50	37	16	48.1
SUD50N06-07L	60	20	0.0074		0.0088							96	96		136
SUD23N06-31	60	20	0.031		0.045							21.4	11	6.5	31.25

Notes:

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| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



N-Channel, continued

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω							Footnote	I _D (A)	Q _g (nC)		P _D (W)	
			V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V			V _{GS} = 1.2 V	V _{GS} = 10 V		V _{GS} = 4.5 V
DPAK (TO-252), continued															
SUD40N08-16	80	20	0.016									40	42		136
SUD50N10-18P	100	20	0.0185									50	48		136.4
SUD35N10-26P	100	20	0.026									35	31		83
SUD50N10-34P	100	20	0.034	0.04							d	20	24		56
SUD06N10-225L	100	20	0.2		0.225							6.5		2.7	20
SUD25N15-52	150	20	0.052	0.06							d	25	33		136
SUD15N15-95	150	20	0.095	0.1							d	15	20		62
SUD19N20-90	200	20	0.09	0.105							d	19	34		136
SUD17N25-165	250	20	0.165									17	30		136
PowerPAK SO-8															
SIR494DP	12	20	0.0012		0.0017							60	98	50	104
Si7858BDP	12	8			0.0025		0.003	0.0037				40		56	48
SIR492DP	12	8			0.0038		0.0047					40		41	36
SIR404DP	20	12	0.0016		0.00175		0.00225					60		64.5	104
SIR440DP	20	20	0.00155		0.002							60	100	43.5	104
SIR866DP	20	20	0.0019		0.00255							60	71	35.3	83
SIR800DP	20	12	0.0023		0.0026		0.0034					50	89	41	69
SIR890DP	20	20	0.0029		0.004							50	42	20	50
SIR802DP	20	12	0.005		0.0057		0.0076					30	32	15.5	27.7
SIR410DP	20	20	0.0048		0.0063							35	27	16.7	36
SIR424DP	20	20	0.0055		0.0074							30	22	9.6	41.7
SIR484DP	20	20	0.0083		0.0115							20	15	7.1	29.8
SIR438DP	25	20	0.0018		0.0023							60	70	32.6	83
SIR862DP	25	20	0.0028		0.0035							50	60	28.4	69
SIR844DP	25	20	0.0028		0.0038							50	60	29.5	50

Notes:

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|--|--|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |

Low-Voltage Power MOSFETs Selector Guide



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N-Channel, continued

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _b (A)	Q _g (nC)		P _D (W)
			V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
PowerPAK SO-8, continued															
SiR892DP	25	20	0.0032		0.0042							50	40	20	50
SiR406DP	25	20	0.0038		0.0048							40	33	15.8	48
SiR436DP	25	20	0.0046		0.0062							40	31	13	50
SiR408DP	25	20	0.0063		0.008							21.5	21.5	9.3	4.8
SiR850DP	25	20	0.007		0.009							30	19	8.4	41.7
SiR874DP	25	20	0.0094		0.012							20	18	8	29.8
SiR412DP	25	20	0.012		0.015							20	10.7	4.9	15.6
SiR158DP	30	20	0.0018		0.0023							60	87	41.5	83
Si7658ADP	30	20	0.0022		0.0028							60	74	34	83
SiR164DP	30	20	0.0025		0.0032							50	82	40.6	69
SiR166DP	30	20	0.0032		0.004							40	51	25	48
SiR466DP	30	20	0.0035		0.0051							40	42.5	21.5	54
SiR168DP	30	20	0.0044		0.0059							40	49.5	24.5	34.7
SiR460DP	30	20	0.0047		0.0061							40	36	16.8	48
Si7634BDP	30	20	0.0054		0.007							40	45.5	21.5	48
SiR468DP	30	20	0.0057		0.0076							40	29	13.8	50
SiR402DP	30	20	0.006		0.008							50	28	12	36
SiR462DP	30	20	0.0079		0.01							30	20	8.8	41.7
SiR172DP	30	20	0.0089		0.0124							20	19.5	9.8	29.8
SiR472DP	30	20	0.012		0.015						b	20	15	6.8	29.8
SiR470DP	40	20	0.0023		0.00265							60	102	45.5	104
SiR414DP	40	20	0.0028		0.0032							50	78	38	83
SiR416DP	40	20	0.0038		0.0042							50	59	28.2	69
SiR418DP	40	20	0.005		0.006							40	50	24	39
SiR422DP	40	20	0.0066		0.008							40	32	16.1	34.7
SiR426DP	40	20	0.0105		0.0125							30	20.5	9.3	41.7
SiR836DP	40	20	0.019		0.0225							21	11.8	5.8	15.6
Si7164DP	60	20	0.00625									60	49.5		104
Si7478DP	60	20	0.0075		0.0088							20	105		5.4
Si7460DP	60	20	0.0096		0.012							18	65		5.4
Si7370DP	60	20	0.011									15.8	46		5.2
Si7850DP	60	20	0.022		0.031							10.3	18		4.5

Notes:

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|--|---|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{DS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



N-Channel, continued

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
			V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
PowerPAK SO-8, continued															
Si7174DP	75	20	0.007									60	47.5		104
Si7148DP	75	20	0.011		0.0145							28	68	33	96
SiR880DP	80	20	0.0059	0.0067	0.0085						w	60	49	23	104
Si7186DP	80	20	0.0125									32	46		64
Si7852DP	80	20	0.0165									12.5	34		5.2
Si7852ADP	80	20	0.017		0.021						r	30	30.5		62.5
SiR804DP	100	20	0.0072		0.0103							60	50.8	24.8	104
SiR882DP	100	20	0.0087	0.0094	0.0115						w	60	38.5	18.3	83
SiR876DP	100	20	0.0108	0.0114	0.0145						w	40	31.8	16.9	62.5
SiR878DP	100	20	0.014	0.0148	0.019						w	40	28.3	13.6	44.5
Si7456CDP	100	20	0.0235	0.0245	0.0315						w	27.5	15	7.7	35.7
Si7454CDP	100	20	0.0305	0.033	0.043						w	22	12.8	6.3	29.7
SiR838DP	150	20	0.033									35	33		96
Si7738DP	150	20	0.038									30	35		96
Si7430DP	150	20	0.045	0.047							r	26	28.5		64
Si7898DP	150	20	0.085	0.095							d	4.8	17		5
Si7172DP	200	20	0.07	0.076							d	25	51	34	96
Si7450DP	200	20	0.08	0.09							d	5.3	34		5.2
Si7462DP	200	20	0.13	0.142							d	4.1	20		4.8
Si7464DP	200	20	0.24	0.26							d	2.8	12		4.2
Si7190DP	250	20	0.118		0.124						d	18.4	48	32	96
Si7434DP	250	20	0.155		0.162						d	3.8	34		5.2
PolarPAK															
SiE874DF	20	20	0.00117		0.0016							60	95	45	125
SiE820DF	20	12			0.0035		0.0064					50	95	43	104
SiE822DF	20	20	0.0034		0.0055							50	52	24	104
SiE882DF	25	20	0.0014		0.0018							60	96	46	125
SiE878DF	25	20	0.0052		0.0068							45	24	11.2	25
SiE848DF	30	20	0.0016		0.0022							60	92	43	125
SiE860DF	30	20	0.0021		0.0028							60	70	34	104

Notes:

- a. Q_g @ V_{GS} = 15 V (vs. 10 V)
- b. Q_g @ V_{GS} = 5 V (vs. 4.5 V)
- c. R_{DS} = r_{SS}/2
- d. R_{DS(on)} @ V_{GS} = 6 V (vs. 4.5 V)
- e. R_{DS(on)} @ V_{GS} = 3 V (vs. 3.3 V)
- f. R_{DS(on)} @ V_{GS} = 3.7 V (vs. 3.3 V)
- g. R_{DS(on)} @ V_{GS} = 4.75 V (vs. 4.5 V)
- h. R_{DS(on)} @ V_{GS} = 2.7V (vs. 2.5 V or 3.3 V)
- i. Not used
- j. R_{DS(on)} @ V_{GS} = 3.1 V (vs. 3.3 V)
- k. S1 and D2 connected
- l. Not used
- m. Schottky connected to channel 1
- n. Half-bridge
- o. Not used
- p. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- q. Q_g @ V_{GS} = 6 V (vs. 4.5 V)
- r. R_{DS(on)} @ V_{GS} = 8 V (vs. 6 V)
- s. R_{DS(on)} @ V_{GS} = 15 V
- t. R_{DS(on)} @ V_{GS} = 5 V
- u. R_{DS(on)} @ V_{GS} = 1.7 V (vs. 1.8 V)
- v. R_{DS(on)} @ V_{GS} = 3.5 V (vs. 3.3 V)
- w. R_{DS(on)} @ V_{GS} = 7.5 V (vs. 6 V)
- x. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- y. Q_g @ V_{GS} = 8 V (vs. 4.5 V)

Low-Voltage Power MOSFETs Selector Guide



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N-Channel, continued

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _b (A)	Q _g (nC)		P _D (W)
			V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
PolarPAK, continued															
SiE862DF	30	20	0.0032		0.0041							50	48	23	104
SiE864DF	30	20	0.0056		0.0073							45	25	11.9	25
SiE868DF	40	20	0.0023		0.0029							60	95	45	125
SiE832DF	40	20	0.0055		0.007							50	51	25	104
SiE876DF	60	20	0.0061									60	51		125
SiE818DF	75	20	0.0095		0.0125							60	63	33	125
SiE854DF	100	20	0.0142									60	50		125
SiE804DF	150	20	0.038		0.04						d	37	70	46	125
SiE836DF	200	30	0.13									18.3	27		104
SO-8															
Si4838BDY	12	8			0.0027		0.0032	0.004				34		56	5.7
Si4866BDY	12	8			0.0053		0.006	0.0074				21.5		52	4.45
Si4136DY	20	20	0.002		0.0025							46	73	34	7.8
Si4186DY	20	20	0.0026		0.0032							35.8	60	28.7	6
Si4114DY	20	16	0.006		0.007							20	62	27.5	5.7
Si4004DY	20	20	0.0138		0.0192							12	21.6	10.6	5
Si4630DY	25	16	0.0027		0.0032							40	107.5	49	7.8
Si4654DY	25	16	0.004		0.005							28.6	63	29	5.9
Si4116DY	25	12	0.0086		0.0095		0.0115					18	37	17.5	5
Si4666DY	25	12	0.01		0.011		0.014					16.5	22.4	10.7	5
Si4778DY	25	16	0.023		0.028							8	12	5.5	5
Si4126DY	30	20	0.00275		0.0034							39	70	30	7.8
Si4164DY	30	20	0.0032		0.0039							30	62	26.5	6
Si4166DY	30	20	0.0039		0.0055							30.5	42.5	21.5	6.5
Si4160DY	30	20	0.0049		0.0063							25.4	36	16.8	5.7
Si4634DY	30	20	0.0052		0.0067							24.5	45.5	21.5	5.7
Si4168DY	30	20	0.0057		0.0076							24	29	13.8	5.7
Si4156DY	30	20	0.006		0.008							24	28	12	6
Si4162DY	30	20	0.0079		0.01							19.3	20	8.8	5
Si4174DY	30	20	0.0095		0.013							17	18	8	5

Notes:

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|--|---|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{DS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



N-Channel, continued

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω							Footnote	I _D (A)	Q _g (nC)		P _D (W)	
			V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V			V _{GS} = 1.2 V	V _{GS} = 10 V		V _{GS} = 4.5 V
SO-8, continued															
Si4172DY	30	20	0.012		0.015						b	15	15	6.8	4.5
Si4890BDY	30	25	0.012		0.016							16	22	10	5.7
Si4134DY	30	20	0.014		0.0175							14	15.4	7.3	5
Si4178DY	30	20	0.021		0.033							12	7.5	3.7	5
Si4154DY	40	20	0.0033		0.0039							36	70	32.5	7.8
Si4122DY	40	25	0.0045		0.006							27.2	62	29	6
Si4124DY	40	20	0.0075		0.009							20.5	51	21	5.7
Si4840BDY	40	20	0.009		0.012							19	33	15	6
Si4446DY	40	12	0.04		0.045							5.2		8	2
Si4470EY	60	20	0.011	0.013							d	12.7	46		3.75
Si4850EY	60	20	0.022		0.031							8.5	18		3.3
Si4436DY	60	20	0.036		0.043							8	21	10.5	5
Si4108DY	75	20	0.0098									20.5	36		7.8
Si4110DY	80	20	0.013									17.3	35		7.8
Si4896DY	80	20	0.0165		0.022						d	9.5	34		3.1
Si4190DY	100	20	0.0088		0.012							20	38.6	18.3	7.8
Si4486EY	100	20	0.025	0.028							d	7.9	36		3.8
Si4484EY	100	20	0.034	0.04							d	6.9	24		3.8
Si4100DY	100	20	0.063	0.084							d	6.8	13.5	9	6
Si4104DY	100	20	0.105									4.6	8.5		5
Si4102DY	100	20	0.158		0.175						d	3.8	7.1	4.6	4.8
Si4472DY	150	20	0.045	0.047							r	7.7	28.5		5.9
Si4488DY	150	20	0.05									5	30		3.1
Si4848DY	150	20	0.085	0.095							d	3.7	17		3
Si4490DY	200	20	0.08	0.09							d	4	34		3.1
Si4418DY	200	20	0.13	0.142							d	3	20		2.5
Si4464DY	200	20	0.24	0.26							d	2.2	12		2.5
Si4462DY	200	20	0.48	0.51							d	1.5	6		2.5
Si4434DY	250	20	0.155	0.162							d	3	34		3.1

Notes:

- a. Q_g @ V_{GS} = 15 V (vs. 10 V)
- b. Q_g @ V_{GS} = 5 V (vs. 4.5 V)
- c. R_{DS} = r_{SS}/2
- d. R_{DS(on)} @ V_{GS} = 6 V (vs. 4.5 V)
- e. R_{DS(on)} @ V_{GS} = 3 V (vs. 3.3 V)
- f. R_{DS(on)} @ V_{GS} = 3.7 V (vs. 3.3 V)
- g. R_{DS(on)} @ V_{GS} = 4.75 V (vs. 4.5 V)
- h. R_{DS(on)} @ V_{GS} = 2.7V (vs. 2.5 V or 3.3 V)
- i. Not used
- j. R_{DS(on)} @ V_{GS} = 3.1 V (vs. 3.3 V)
- k. S1 and D2 connected
- l. Not used
- m. Schottky connected to channel 1
- n. Half-bridge
- o. Not used
- p. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- q. Q_g @ V_{GS} = 6 V (vs. 4.5 V)
- r. R_{DS(on)} @ V_{GS} = 8 V (vs. 6 V)
- s. R_{DS(on)} @ V_{GS} = 15 V
- t. R_{DS(on)} @ V_{GS} = 5 V
- u. R_{DS(on)} @ V_{GS} = 1.7 V (vs. 1.8 V)
- v. R_{DS(on)} @ V_{GS} = 3.5 V (vs. 3.3 V)
- w. R_{DS(on)} @ V_{GS} = 7.5 V (vs. 6 V)
- x. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- y. Q_g @ V_{GS} = 8 V (vs. 4.5 V)

Low-Voltage Power MOSFETs Selector Guide



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N-Channel, continued

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
			V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
TSSOP-8															
Si6410DQ	30	20	0.014		0.021							7.8		22.5	1.5
PowerPAK 1212-8															
Si7102DN	12	8			0.0038		0.0047					35		41	52
SiS452DN	12	20	0.00325		0.0048							35	27	13.5	52
SiS454DN	20	20	0.0037		0.0054							35	35	18.5	52
SiS410DN	20	20	0.0048		0.0063							35	27	16.7	5.2
SiS424DN	20	20	0.0064		0.0089							35	20	9.5	39
SiS438DN	20	20	0.0095		0.0125							16	15	7.3	27.7
SiS430DN	25	20	0.0051		0.0069							35	26.5	13	52
SiS436DN	25	20	0.0105		0.013							16	14.3	6.7	27.7
SiS456DN	30	20	0.0051		0.0068							35	36	18.5	52
SiS402DN	30	20	0.006		0.008							50	28	12	5.2
Si7114ADN	30	20	0.0075		0.0098							35	21	10.2	39
SiS406DN	30	25	0.011		0.0145							14	18.2	8.4	3.7
SiS414DN	30	12			0.016		0.02					20	22	8.2	31
Si7716ADN	30	20	0.0135		0.0165							16	15.4	7.3	27.7
SiS412DN	30	20	0.024		0.03							12	8	3.8	15.6
SiS434DN	40	20	0.0076		0.0092							35	25	12.5	52
Si7120ADN	60	20	0.021		0.031							9.5	30		3.8
Si7414DN	60	20	0.025		0.036							8.7	16		3.8
Si7308DN	60	20	0.058		0.072							6	13	6	19.8
Si7812DN	75	20	0.037		0.046							16	16	8	52
SiS892DN	100	20	0.029		0.042							30	14.2	6.7	52
Si7322DN	100	20	0.058									18	13		52
Si7818DN	150	20	0.135	0.142							d	3.4	20		3.8
Si7820DN	200	20	0.24	0.25							d	2.6	12.1		3.8
Si7802DN	250	20	0.435	0.445							d	1.95	14		3.8
TSOP-6															
Si3464DV	20	8			0.024		0.028	0.03				8		11	3.6
Si3460DDV	20	8			0.028		0.032	0.038				7.9		6.7	2.7

Notes:

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|--|---|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{DS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



N-Channel, continued

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω							Footnote	I _D (A)	Q _g (nC)		P _D (W)	
			V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V			V _{GS} = 1.2 V	V _{GS} = 10 V		V _{GS} = 4.5 V
TSOP-6, continued															
Si3442BDV	20	12			0.057		0.09					4.2		3	1.67
Si3410DV	30	20	0.0195		0.023							8	21.8	9.2	4.1
Si3456DDV	30	20	0.04		0.05							6.3	6	2.8	2.7
Si3438DV	40	20	0.0355		0.0425							7.4	11.7	5.3	3.5
Si3458BDV	60	20	0.1		0.128							4.1	7.1	3.5	3.3
Si3430DV	100	20	0.17	0.185							d	2.4	5.5		2
Si3440DV	150	20	0.375	0.4							d	1.5	5.4		2
SOT-23															
Si2312CDS	20	8			0.0318		0.0356	0.0414				6		8.8	2.1
Si2302CDS	20	8			0.057		0.075					2.9		3.5	0.86
TN0200K	20	8			0.4		0.5					0.73		1.4	0.35
TN0201K	20	20	1		1.4							0.42	1		0.35
Si2334DS	30	8			0.044		0.05					4.9		6.5	1.7
Si2300DS	30	12			0.068		0.085					3.6	6.5	3	1.7
Si2304DDS	30	20	0.06		0.075							3.6	4.5	2.1	1.7
Si2318DS	40	20	0.045		0.058							3.9	10		1.25
Si2308BDS	60	20	0.156		0.192							2.3	4.5	2.3	1.66
2N7002K	60	20	2		4							0.3		0.4	0.35
Si2328DS	100	20	0.25									1.5	3.3		1.25
TN2404K	240	20	4		4		6					0.2	4.87		0.36
PowerPAK ChipFET															
Si5456DU	20	20	0.01		0.0135							12	20	9.8	31
Si5486DU	20	8			0.015		0.017	0.021				12		21	31
Si5418DU	30	20	0.0145		0.0185							12	20	9.5	31
Si5458DU	30	20	0.041		0.051							6	6	2.8	10.4
Si5410DU	40	20	0.018		0.021							12	21	10	31
Si5476DU	60	20	0.034		0.041							12	21	10.5	31
1206-8 ChipFET															
Si5406CDC	12	8			0.02		0.023	0.027				6		11.5	5.7
Si5414DC	20	12			0.017		0.022					6	27	12.5	6.3

Notes:

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| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |

Low-Voltage Power MOSFETs Selector Guide



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N-Channel, continued

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
			V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
1206-8 ChipFET, continued															
Si5432DC	20	12			0.02		0.025					6	22	10	6.3
Si5440DC	30	20	0.019		0.024							6	19	9	6.3
Si5424DC	30	25	0.024		0.03							6	21	11	9
Si5468DC	30	20	0.028		0.034							6	8	3.8	5.7
Si5402BDC	30	20	0.035		0.042							6.7	10		2.5
SC70-6															
Si1422DH	12	8			0.026		0.03	0.036				4		7.5	2.8
Si1406DH	20	8			0.065		0.075	0.096				3.9		4.9	1.56
Si1410EDH	20	12			0.07		0.08	0.1				3.7		5.6	1.56
Si1400DL	20	12			0.15		0.235					1.7		2.1	0.625
Si1300BDL	20	8			0.85		1.08					0.4		0.56	0.2
Si1470DH	30	12			0.066		0.095					5.1		4.85	2.8
Si1426DH	30	20	0.075		0.115							3.6		1.9	1.6
Si1304BDL	30	12			0.29		0.385					0.9		1.8	0.37
Si1302DL	30	20	0.48		0.7							0.64	0.86		0.31
Si1330FDL	60	20	2.5		3	8					e	0.25		0.4	0.31
PowerPAK SC-70															
SiA414DJ	8	5			0.011		0.013	0.016	0.022	0.041		12		19	19
SiA406DJ	12	8			0.0198		0.0222	0.0264				4.5		13.7	19
SiA430DJ	20	20	0.0135		0.0185							12	12	5.3	19.2
SiA426DJ	20	12	0.0236		0.0263		0.0361					4.5	17.5	7.9	19
SiA432DJ	30	20	0.02		0.024							12	13	5.6	19.2
SiA408DJ	30	12	0.036		0.039		0.053					4.5	16	7	17.9
SiA456DJ	200	16			1.38		1.5	3.5				2.6	9.5	5	19
SiA450DJ	240	20	2.9		2.95		3.5					1.52	4.69	2.54	15
SC75A															
Si1046R	20	8			0.42		0.501	0.66				0.61		0.92	0.25
Si1012R	20				0.7		0.85	1.25				0.5		0.75	0.15
Si1032R	20				5		7	9				0.14		0.75	0.2

Notes:

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|--|---|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{DS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



N-Channel, continued

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
			V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
SC75A, continued															
Si1022R	60		1.25		3							0.33			0.25
PowerPAK SC-75															
SiB414DK	8	5			0.026		0.03	0.037	0.052	0.089		9		8.6	13
SiB488DK	12	8			0.02		0.024	0.029				9		8.6	13
SiB422EDK	20	8			0.03		0.041	0.057	0.082			9		6	13
SiB406EDK	20	12			0.046		0.063					6	7.5	3.5	10
SiB408DK	30	20	0.04		0.05							7	6.2	2.9	13
SiB452DK	190	16			2.4		2.6	6				1.5	4.3	2.3	13
SC89-6															
Si1050X	8	5			0.086		0.093	0.102	0.12			1.34		7.1	0.236
Si1056X	20	8			0.089		0.098	0.121				1.32		5.2	0.236
Si1058X	20	12			0.091		0.124					1.3		3.51	0.236
Si1012X	20				0.7		0.85	1.25				0.5		0.75	0.25
Si1032X	20				5		7	9				0.14		0.75	0.2
Si1070X	30	12			0.099		0.14					1.2		3.5	0.236
Si1072X	30	20	0.093		0.129							1.3	5.5	2.7	0.24
MICRO FOOT 1.6 x 1.6															
Si8424DB	8	5			0.031		0.033	0.035	0.043	0.077		12.2		20	6.25
Si8402DB	20	8			0.037		0.039	0.043				7.3		17	2.77
MICRO FOOT 0.8 x 0.8															
Si8800EDB	20	8			0.8		0.09	0.105	0.15			2.8		3.2	0.9
DUAL N															
PowerPAK SO-8															
Si7234DP	12	12			0.0034		0.005					60	80	37	46
Si7236DP	20	12			0.0052		0.007					60	68	31	46
Si7994DP	30	20	0.0056		0.007							60	52	24	46
Si7272DP	30	20	0.0093		0.0124							25	17	8.2	22
Si7938DP	40	20	0.0058		0.007							60	43	21	46
Si7288DP	40	20	0.019		0.022							20	10	4.9	15.6
Si7960DP	60	20	0.021		0.025							9.7	49		3.5

Notes:

- a. Q_g @ V_{GS} = 15 V (vs. 10 V)
- b. Q_g @ V_{GS} = 5 V (vs. 4.5 V)
- c. R_{DS} = r_{SS}/2
- d. R_{DS(on)} @ V_{GS} = 6 V (vs. 4.5 V)
- e. R_{DS(on)} @ V_{GS} = 3 V (vs. 3.3 V)
- f. R_{DS(on)} @ V_{GS} = 3.7 V (vs. 3.3 V)
- g. R_{DS(on)} @ V_{GS} = 4.75 V (vs. 4.5 V)
- h. R_{DS(on)} @ V_{GS} = 2.7V (vs. 2.5 V or 3.3 V)
- i. Not used
- j. R_{DS(on)} @ V_{GS} = 3.1 V (vs. 3.3 V)
- k. S1 and D2 connected
- l. Not used
- m. Schottky connected to channel 1
- n. Half-bridge
- o. Not used
- p. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- q. Q_g @ V_{GS} = 6 V (vs. 4.5 V)
- r. R_{DS(on)} @ V_{GS} = 8 V (vs. 6 V)
- s. R_{DS(on)} @ V_{GS} = 15 V
- t. R_{DS(on)} @ V_{GS} = 5 V
- u. R_{DS(on)} @ V_{GS} = 1.7 V (vs. 1.8 V)
- v. R_{DS(on)} @ V_{GS} = 3.5 V (vs. 3.3 V)
- w. R_{DS(on)} @ V_{GS} = 7.5 V (vs. 6 V)
- x. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- y. Q_g @ V_{GS} = 8 V (vs. 4.5 V)

Low-Voltage Power MOSFETs Selector Guide



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N-Channel, continued

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _b (A)	Q _g (nC)		P _D (W)
			V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
PowerPAK S0-8, continued															
Si7942DP	100	20	0.049	0.06							d	5.9	16		3.5
Si7956DP	150	20	0.105	0.115							d	4.1	17		3.5
Si7946DP	150	20	0.15	0.168							d	3.3	12.6		3.5
S0-8															
Si4204DY	20	20	0.0046		0.006							19.8	30	14.5	3.25
Si9926CDY	20	12			0.018		0.022					8	22	10	3.1
Si4226DY	25	12			0.0195		0.026					8	24	11	3.2
Si4228DY	25	12	0.018		0.02		0.024					8	16.5	7.8	3.1
Si4952DY	25	16	0.023		0.028							8	12	5.5	2.8
Si4932DY	30	20	0.015		0.017							8	32	14.7	3.2
Si4214DDY	30	20	0.0195		0.023							8.5	14.5	7.1	3.1
Si4804CDY	30	20	0.022		0.027							8	15.4	7	3.1
Si4210DY	30	20	0.0355		0.044							6.5	8	3.7	2.7
Si4936CDY	30	20	0.04		0.05							5.8	6	2.8	2.3
Si4904DY	40	16	0.016		0.019							8	56	26	3.25
Si4910DY	40	16	0.027		0.032							7.6	21	9.6	3.1
Si4906DY	40	16	0.039		0.05							6.6	14.4	6.6	3.1
Si4946BEY	60	20	0.041		0.052						b	6.5	17	9.2	3.7
Si9945BDY	60	20	0.058		0.072							5.3	13	6	3.1
Si4992EY	75	20	0.048		0.062							4.8	14		2.4
TSSOP-8															
Si6926ADQ	20	8			0.03	0.033	0.035	0.043			e	4.5		7.5	1
Si6925ADQ	20	12			0.045	0.055	0.065				e	3.9		4	1.13
Si6928DQ	30	20	0.035		0.05							4		9	1
Si6954ADQ	30	20	0.053		0.075							3.4	8		1
PowerPAK 1212-8															
Si7232DN	20	8			0.0164		0.02	0.024				25		12	23
Si7904BDN	20	8			0.03		0.036	0.045				6		9	17.8
Si7228DN	30	20	0.02		0.025							26	8.5	4.1	23
Si7212DN	30	12	0.036		0.039							6.8		7	2.6

Notes:

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|--|---|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{DS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



N-Channel, continued

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω							Footnote	I _D (A)	Q _g (nC)		P _D (W)	
			V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V			V _{GS} = 1.2 V	V _{GS} = 10 V		V _{GS} = 4.5 V
PowerPAK 1212-8, continued															
Si7216DN	40	20	0.032		0.039							6	12.5	5.5	20.8
Si7222DN	40	12	0.042		0.047							6	19	8	17.8
Si7220DN	60	20	0.06		0.075							4.8	13		2.6
SiS902DN	75	20	0.186		0.228							4	3.9	2.1	15.4
Si7922DN	100	20	0.195	0.23							d	2.5	5.2		2.6
TSOP-6															
Si3900DV	20	12			0.125		0.2					2.4		2.1	1.15
Si3932DV	30	20	0.058		0.073							3.7	3.7	1.8	1.4
PowerPAK ChipFET															
Si5906DU	30	20	0.031		0.04							6	5.7	2.9	10.4
Si5944DU	40	20	0.112		0.171							6	4.4	2.2	10
Si5980DU	100	20	0.567									2.5	2.2		7.8
1206-8 ChipFET															
Si5920DC	8	5			0.032		0.036	0.045	0.054			8.4		7.3	3.12
Si5908DC	20	8			0.04		0.045	0.052				5.9		5	2.1
Si5904DC	20	12			0.075		0.134					4.2		4	2.1
Si5902BDC	30	20	0.065		0.1							4	4.5	2	3.12
SC70-6															
Si1988DH	20	8			0.168		0.2	0.25				1.3		1.6	1.25
Si1958DH	20	12			0.205		0.34					1.3	2.5	1.2	1.25
Si1912EDH	20	12			0.28		0.36	0.45				1.28		0.65	0.74
Si1902DL	20	12			0.385		0.63					0.7		0.8	0.3
Si1972DH	30	20	0.19		0.344							1.3		0.91	1.25
Si1926DL	60	20	1.4		3							0.37	0.9	0.5	0.51
PowerPAK SC-70															
SiA910EDJ	12	8			0.028		0.033	0.042				4.5		6.2	7.8
SiA906EDJ	20	12			0.046		0.063					4.5	7.5	3.5	7.8
SiA950DJ	190	16			3.8		4.2	17				0.95	3	1.4	7
PowerPAK SC-75															
SiB914DK	8	5			0.113		0.138	0.19	0.28	0.48		1.5		1.5	3.1

Notes:

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|--|--|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |

Low-Voltage Power MOSFETs Selector Guide



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Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
			V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
PowerPAK SC-75, continued															
SiB912DK	20	8			0.216		0.268	0.375				1.5		1.2	3.1
SiB900EDK	20	6			0.225		0.27	0.345	0.96			1.5		1.1	3.1
SC89-6															
Si1024X	20				0.7		0.85	1.25				0.5		0.75	0.25
Si1034X	20				5		7	9				0.14		0.75	0.2
Si1026X	60		1.4		3							0.33		0.6	0.25

Notes:

- a. Q_g @ V_{GS} = 15 V (vs. 10 V)
- b. Q_g @ V_{GS} = 5 V (vs. 4.5 V)
- c. R_{DS} = r_{SS}/2
- d. R_{DS(on)} @ V_{GS} = 6 V (vs. 4.5 V)
- e. R_{DS(on)} @ V_{GS} = 3 V (vs. 3.3 V)
- f. R_{DS(on)} @ V_{GS} = 3.7 V (vs. 3.3 V)
- g. R_{DS(on)} @ V_{GS} = 4.75 V (vs. 4.5 V)
- h. R_{DS(on)} @ V_{GS} = 2.7 V (vs. 2.5 V or 3.3 V)
- i. Not used
- j. R_{DS(on)} @ V_{GS} = 3.1 V (vs. 3.3 V)
- k. S1 and D2 connected
- l. Not used
- m. Schottky connected to channel 1
- n. Half-bridge
- o. Not used
- p. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- q. Q_g @ V_{GS} = 6 V (vs. 4.5 V)
- r. R_{DS(on)} @ V_{GS} = 8 V (vs. 6 V)
- s. R_{DS(on)} @ V_{GS} = 15 V
- t. R_{DS(on)} @ V_{GS} = 5 V
- u. R_{DS(on)} @ V_{GS} = 1.7 V (vs. 1.8 V)
- v. R_{DS(on)} @ V_{GS} = 3.5 V (vs. 3.3 V)
- w. R_{DS(on)} @ V_{GS} = 7.5 V (vs. 6 V)
- x. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- y. Q_g @ V_{GS} = 8 V (vs. 4.5 V)



P-Channel

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
			V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
SINGLE P															
TO-220															
SUP75P03-07	- 30	20	0.007		0.01							75	160		187
SUP90P06-09L	- 60	20	0.0093		0.0118							90	160		250
SUP53P06-20	- 60	20	0.0195		0.025							53	76	38	104.2
SUP40P10-43	- 100	20	0.043		0.048							36	106	54	125
D²PAK (TO-263)															
SUM110P04-05	- 40	20	0.005									110	185		375
SUM110P06-08L	- 60	20	0.008		0.0105							110	160		272
SUM55P06-19L	- 60	20	0.019		0.025							55	76		125
SUM110P08-11L	- 80	20	0.0112		0.0145							110	180	85	375
SUM90P10-19L	- 100	20	0.019		0.021							90	217	97	375
DPAK (TO-252)															
SUD45P03-09	- 30	20	0.0087		0.015							45	60		41.7
SUD50P04-08	- 40	20	0.0081		0.0117							50	106	60	73.5
SUD50P04-40P	- 40	20	0.04		0.05							8	38.5	17	24
SUD50P06-15	- 60	20	0.015		0.02							50	110		113
SUD19P06-60	- 60	20	0.06		0.077							18.3	26		38.5
SUD08P06-155L	- 60	20	0.155		0.28							8.4	12.5		25
SUD50P08-25L	- 80	20	0.0252		0.029							50	105	55	136

Notes:

- a. Q_g @ V_{GS} = 15 V (vs. 10 V)
- b. Q_g @ V_{GS} = 5 V (vs. 4.5 V)
- c. R_{DS} = r_{SS}/2
- d. R_{DS(on)} @ V_{GS} = 6 V (vs. 4.5 V)
- e. R_{DS(on)} @ V_{GS} = 3 V (vs. 3.3 V)
- f. R_{DS(on)} @ V_{GS} = 3.7 V (vs. 3.3 V)
- g. R_{DS(on)} @ V_{GS} = 4.75 V (vs. 4.5 V)
- h. R_{DS(on)} @ V_{GS} = 2.7V (vs. 2.5 V or 3.3 V)
- i. Not used
- j. R_{DS(on)} @ V_{GS} = 3.1 V (vs. 3.3 V)
- k. S1 and D2 connected
- l. Not used
- m. Schottky connected to channel 1
- n. Half-bridge
- o. Not used
- p. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- q. Q_g @ V_{GS} = 6 V (vs. 4.5 V)
- r. R_{DS(on)} @ V_{GS} = 8 V (vs. 6 V)
- s. R_{DS(on)} @ V_{GS} = 15 V
- t. R_{DS(on)} @ V_{GS} = 5 V
- u. R_{DS(on)} @ V_{GS} = 1.7 V (vs. 1.8 V)
- v. R_{DS(on)} @ V_{GS} = 3.5 V (vs. 3.3 V)
- w. R_{DS(on)} @ V_{GS} = 7.5 V (vs. 6 V)
- x. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- y. Q_g @ V_{GS} = 8 V (vs. 4.5 V)

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P-Channel, continued

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
			V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
DPAK (TO-252), continued															
SUD50P10-43L	-100	20	0.043		0.048							37.1	106	54	136
SUD09P10-195	-100	20	0.195		0.21							8.8	23.2	11.7	32.1
PowerPAK SO-8															
Si7137DP	-20	12	0.00195		0.0025		0.0039					60	390	188	104
Si7141DP	-20	20	0.0019		0.003							60	265	128	104
Si7633DP	-20	20	0.0033		0.0055							60	173	85	104
Si7635DP	-20	16	0.0049		0.0075							40	95.3	46.5	54
Si7145DP	-30	20	0.0026		0.00375							60	275	129	104
Si7135DP	-30	20	0.0039		0.0062							60	167	78	104
Si7139DP	-30	20	0.0055		0.009							40	97	49.5	48
Si7149DP	-30	25	0.0052		0.0094							50	98	51	69
Si7143DP	-30	20	0.01		0.0186							35	47.5	24.6	35.7
Si7463DP	-40	20	0.0092		0.014							18.6	121		5.4
Si7461DP	-60	20	0.0145		0.019							14.4	121		5.4
Si7465DP	-60	20	0.064		0.08							5	26		3.5
Si7469DP	-80	20	0.025		0.029							28	105	55	83
Si7489DP	-100	20	0.041		0.047							28	106	54	83
Si7439DP	-150	20	0.09		0.095						d	5.2	88		5.4
Si7431DP	-200	20	0.174		0.18						d	3.8	88		5.4
SO-8															
Si4465ADY	-8	8			0.009		0.011	0.016				13.7		55	3
Si4477DY	-20	12			0.0062		0.0105					26.6	125	59	6.6
Si4463BDY	-20	12	0.011		0.014		0.02					13.7		37	3
Si4403BDY	-20	8			0.017		0.023	0.032			b	9.9		33	2.5
Si9433BDY	-20	12			0.04	0.06					h	6.2		8.8	2.5
Si4497DY	-30	20	0.0033		0.0046							36	190	90	7.8
Si4459ADY	-30	20	0.005		0.00775							29	129	61	7.8
Si4483ADY	-30	25	0.0088		0.0153							19.2	90	44.8	5.9
Si4425DDY	-30	20	0.0098		0.0165							19.7	53	27	5.7

Notes:

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|--|---|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



P-Channel, continued

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)	
			V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V		
SO-8, continued																
Si4825DDY	- 30	25	0.0125		0.0205							14.9	57	29.5	5	
Si4835DDY	- 30	25	0.018		0.03							13	43	22	5.6	
Si4435DDY	- 30	20	0.024		0.035							11.4	32	15	5	
Si4487DY	- 30	25	0.0205		0.0375							11.6	24	12.4	5	
Si4431CDY	- 30	20	0.032		0.049							9	25	13	4.2	
Si4485DY	- 30	20	0.042		0.072							6	13.6	7	5	
Si4401DDY	- 40	20	0.015		0.022							16.1	64	33	6.3	
Si4447DY	- 40	16	0.054		0.072							4.5		9	2	
Si9407BDY	- 60	20	0.12		0.15							4.7	14.5	8	5	
Si4455DY	- 150	20	0.295	0.315							d	2.8	27.5	23.2	5.9	
Si4409DY	- 150	20	1.2	1.3							d	1.3	7.7	4.8	4.6	
TSSOP-8																
Si6423DQ	- 12	8			0.0085		0.0106	0.014				b	9.5		74	1.5
Si6467BDQ	- 12	8			0.0125		0.0155	0.02					8		46	1.5
Si6433BDQ	- 12	8			0.04		0.07						4.8		10	1.5
Si6463BDQ	- 20	8			0.015		0.02	0.027					7.4		40	1.5
Si6443DQ	- 30	20	0.012		0.019								8.8		38	1.5
Si6415DQ	- 30	20	0.019		0.03								6.5	47		1.5
Si6435ADQ	- 30	20	0.03		0.055								5.5		15	1.5
Si6459BDQ	- 60	20	0.115		0.15								2.7	14.5		1.5
PowerPAK 1212-8																
Si7405BDN	- 12	8			0.013		0.017	0.024					16		46	33
Si7615DN	- 20	12	0.0039		0.0055		0.0098						35	122	62	52
SiS407DN	- 20	8			0.0102		0.0138	0.0195					25		38	33
Si7613DN	- 20	16	0.0087		0.014								35	58	28.1	52.1
Si7411DN	- 20	8			0.019		0.025	0.034					11.4		27	3.6
Si7403BDN	- 20	8			0.074		0.11						8		5.6	9.6
Si7621DN	- 20	12			0.09		0.18						4		3.9	12.5
Si7625DN	- 30	20	0.007		0.011								35	84.5	39.5	52
Si7129DN	- 30	20	0.0114		0.02								35	47.5	24.6	52.1

Notes:

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|--|--|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |

Low-Voltage Power MOSFETs Selector Guide



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P-Channel, continued

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
			V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
PowerPAK 1212-8, continued															
Si7617DN	- 30	25	0.0123		0.0222							35	39	20.5	52
Si7121DN	- 30	25	0.018		0.0305							16	43	22	52
Si7619DN	- 30	20	0.021		0.034							24	32	15	27.8
Si7611DN	- 40	20	0.025		0.033							18	41	21	39
Si7415DN	- 60	20	0.065		0.11							5.7	15		3.8
Si7309DN	- 60	20	0.115		0.146							8	14.5	7.5	19.8
Si7113DN	- 100	20	0.113		0.145							13.2	35	16.5	52
Si7115DN	- 150	20	0.295	0.315							d	8.9	27.5	23.2	52
Si7117DN	- 150	20	1.2	1.3							d	2.17	7.7		12.5
Si7119DN	- 200	20	1.05	1.1							d	3.8	16.2	10.6	52
TSOP-6															
Si3499DV	- 8	5			0.023		0.029	0.036	0.045			7		28	2
Si3477DV	- 12	10			0.0175		0.023	0.033				8	58	28.3	4.2
Si3473CDV	- 12	8			0.022		0.028	0.036				8		26	4.2
Si3447CDV	- 12	8			0.036		0.05	0.068				7.8		12	3
Si3407DV	- 20	12			0.024		0.0372					8	42	21	4.2
Si3493BDV	- 20	8			0.0275		0.034	0.045				8		26.2	2.97
Si3433CDV	- 20	8			0.038		0.046	0.06				6		18	3.3
Si3469DV	- 20	20	0.03		0.051							6.7	20		2
Si3443CDV	- 20	12			0.06		0.1					5.97		7.53	3.2
Si3483CDV	- 30	20	0.034		0.053							8	22	11.5	4.2
Si3457CDV	- 30	20	0.074		0.113							5.1	10	5.1	3
Si3459BDV	- 60	20	0.216		0.288							2.9	7.7	4.4	3.3
Si3437DV	- 150	20	0.75	0.79							d	1.4	12.2	8	3.2
Si3475DV	- 200	20	1.61	1.65							d	0.95	11.7	7.8	3.2
SOT-23															
Si2305CDS	- 8	8			0.035		0.048	0.065				5.8		12	1.7
Si2333CDS	- 12	8			0.035		0.045	0.059				7.1		15	2.5
Si2323CDS	- 20	8			0.039		0.05	0.063				6		16	2.5

Notes:

- | | | | |
|--|---|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{DS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



P-Channel, continued

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)	
			V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V		
SOT-23, continued																
Si2377EDS	- 20	8			0.061		0.08	0.11	0.165			4.4		7.6	1.8	
Si2367DS	- 20	8			0.066		0.086	0.13				3.8		9	1.7	
Si2301CDS	- 20	8			0.112		0.142					3.1		5.5	1.6	
TP0101K	- 20	8			0.65		0.85					0.58		1.4	0.35	
Si2343CDS	- 30	20	0.045		0.075							5.9	13.6	7	2.5	
Si2307CDS	- 30	20	0.088		0.138							3.5		4.1	1.8	
Si2303CDS	- 30	20	0.19		0.33							2.7	4	2	2.3	
TP0202K	- 30	20	1.4		3.5							0.39	1		0.35	
Si2319CDS	- 40	20	0.077		0.108							4.4	13.6	7	1.25	
Si2309CDS	- 60	20	0.345		0.45							1.6		2.7	1.7	
TP0610K	- 60	20	5		10							0.4	1.2		0.25	
Si2337DS	- 80	20	0.27	0.303								d	2.2	11	7	2.5
Si2325DS	- 150	20	1.2	1.3								d	0.69	7.7		1.25
Si2327DS	- 200	20	2.35	2.45								d	0.49	8		1.25
PowerPAK ChipFET																
Si5459DU	- 20	12			0.052		0.082					8	17	8	10.9	
Si5419DU	- 30	20	0.02		0.033							12	30	15.5	31	
1206-8 ChipFET																
Si5499DC	- 8	5			0.036		0.045	0.056	0.077			6		14	6.2	
Si5475DDC	- 12	8			0.032		0.04	0.052				6		20	5.7	
Si5471DC	- 20	12			0.02		0.028	0.062				6	64	30	6.3	
Si5433BDC	- 20	8			0.037		0.05	0.07				6.7		15	2.5	
Si5441BDC	- 20	12			0.045	0.052	0.08					6.1		11.5	2.5	
Si5403DC	- 30	20	0.03		0.044							6	28	15	6.3	
Si5435BDC	- 30	20	0.045		0.08							5.9	16		2.5	
SC70-6																
Si1499DH	- 8	5			0.078		0.095	0.115	0.153	0.424		1.6		10.5	2.78	
Si1405BDH	- 8	8			0.112		0.16	0.21				1.6		3.67	2.27	
Si1305DL	- 8	8			0.28		0.38	0.53				0.92		2.6	0.34	
Si1401EDH	- 12	10			0.034		0.046	0.07	0.11			4		14.1	2.8	

Notes:

- a. Q_g @ V_{GS} = 15 V (vs. 10 V)
- b. Q_g @ V_{GS} = 5 V (vs. 4.5 V)
- c. R_{DS} = r_{SS}/2
- d. R_{DS(on)} @ V_{GS} = 6 V (vs. 4.5 V)
- e. R_{DS(on)} @ V_{GS} = 3 V (vs. 3.3 V)
- f. R_{DS(on)} @ V_{GS} = 3.7 V (vs. 3.3 V)
- g. R_{DS(on)} @ V_{GS} = 4.75 V (vs. 4.5 V)
- h. R_{DS(on)} @ V_{GS} = 2.7V (vs. 2.5 V or 3.3 V)
- i. Not used
- j. R_{DS(on)} @ V_{GS} = 3.1 V (vs. 3.3 V)
- k. S1 and D2 connected
- l. Not used
- m. Schottky connected to channel 1
- n. Half-bridge
- o. Not used
- p. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- q. Q_g @ V_{GS} = 6 V (vs. 4.5 V)
- r. R_{DS(on)} @ V_{GS} = 8 V (vs. 6 V)
- s. R_{DS(on)} @ V_{GS} = 15 V
- t. R_{DS(on)} @ V_{GS} = 5 V
- u. R_{DS(on)} @ V_{GS} = 1.7 V (vs. 1.8 V)
- v. R_{DS(on)} @ V_{GS} = 3.5 V (vs. 3.3 V)
- w. R_{DS(on)} @ V_{GS} = 7.5 V (vs. 6 V)
- x. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- y. Q_g @ V_{GS} = 8 V (vs. 4.5 V)

Low-Voltage Power MOSFETs Selector Guide



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P-Channel, continued

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
			V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
SC70-6, continued															
Si1417EDH	- 12	12			0.085		0.115	0.16				3.3		5.8	1.56
Si1307EDL	- 12	8			0.29		0.435	0.58				0.91		3.2	0.34
Si1467DH	- 20	8			0.09		0.115	0.15				1.6		9	2.78
Si1469DH	- 20	12	0.08		0.1		0.155					1.6		5.5	2.78
Si1413EDH	- 20	12			0.115		0.155	0.22				2.9		5.6	1.56
Si1403BDL	- 20	12			0.15	0.175	0.265				p	1.5		2.9	0.625
Si1303DL	- 20	12			0.43	0.48	0.7					0.72		1.7	0.34
Si1471DH	- 30	12	0.1		0.12		0.175					1.6		6.5	2.78
Si1473DH	- 30	20	0.1		0.145							1.6		4.1	2.78
Si1411DH	- 150	20	2.6	2.7							d	0.52	4.2		1.56
Si1419DH	- 200	20	5	5.1							d	0.38	4.1		1.56
PowerPAK SC-70															
SiA427DJ	- 8	5			0.016			0.026	0.032	0.095		12		30	19
SiA413DJ	- 12	8			0.029		0.034	0.044	0.1			12		23	19
SiA433EDJ	- 20	12			0.018		0.026	0.065				12		20	19
SiA431DJ	- 20	8			0.025		0.031	0.041	0.07			12		24	19
SiA419DJ	- 20	5			0.03		0.039	0.051	0.066	0.113		12		17.5	19
SiA415DJ	- 20	12			0.035		0.051					12	31	15	19
SiA425EDJ	- 20	12			0.06	0.065	0.08	0.12			x	12	19	10	19
SiA421DJ	- 30	20	0.035		0.056							12	19	10	19
SC75A															
Si1013R	- 20				1.2		1.6	2.7				0.37		1.5	0.25
Si1031R	- 20				8		12	15				0.14		1.5	0.25
Si1021R	- 60		5		10						a	0.17	1.7		0.25
PowerPAK SC-75															
SiB417EDK	- 8	5			0.058		0.08	0.1	0.13	0.25		9		7.3	13
SiB455EDK	- 12	10			0.027		0.039	0.069	0.165			9		11.3	13
SiB457EDK	- 20	8			0.035		0.049	0.072	0.13			9	22	13	13
SiB433EDK	- 20	8			0.058		0.077	0.105				9		7.6	13
SiB415DK	- 30	20	0.087		0.158							9	6.7	3.5	13

Notes:

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|--|---|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



P-Channel, continued

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
			V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
SC89-6															
Si1065X	- 12	8			0.13		0.158	0.205				1.18		6.7	0.236
Si1067X	- 20	8			0.15		0.166	0.214				1.06		6	0.236
Si1069X	- 20	12			0.184		0.268					0.94		4.23	0.236
Si1013X	- 20				1.2		1.6	2.7				0.4		1.5	0.3
Si1071X	- 30	12	0.167		0.188		0.244					0.96	8.87	4.43	0.236
Si1073X	- 30	20	0.173		0.243							0.98	6.3	3.25	0.236
MICRO FOOT															
MICRO FOOT 2.4 x 1.6															
Si8407DB	- 20	8			0.027		0.032	0.045				8.2		32	2.9
MICRO FOOT 1.6 x 1.6															
Si8429DB	- 8	5			0.035		0.042	0.052	0.069	0.098		11.7		21	6.25
Si8415DB	- 12	8			0.037		0.046	0.06				7.3		19	2.77
Si8475EDB	- 20	12			0.032		0.051					7.7			2.7
Si8473EDB	- 20	12			0.041		0.055					7.1			2.7
Si8413DB	- 20	12			0.048		0.063					6.5		14	2.77
Si8401DB	- 20	12			0.065		0.095					4.9		11	2.77
Si8409DB	- 30	12			0.046		0.065					6.3		17	2.77
MICRO FOOT 1.5 x 1															
Si8499DB	- 20	12			0.032		0.046	0.12				16		14.5	13
Si8447DB	- 20	12			0.075		0.105	0.26			u	11	15	7.5	13
Si8451DB	- 20	8			0.08		0.1	0.126	0.2			10.8		10	13
MICRO FOOT 1.2 x 1															
Si8445DB	- 20	5			0.084		0.1	0.12	0.155	0.495		9.8		9.5	11.4
MICRO FOOT 1 x 1															
Si8467DB	- 20	12			0.073		0.125					3.7	14	6.9	1.8
Si8461DB	- 20	8			0.1		0.118	0.14	0.205			3.7		9.5	1.8
Si8465DB	- 20	12			0.104		0.148					3.8	12	6	1.8
DUAL P															
PowerPAK SO-8															
Si7945DP	- 30	20	0.02		0.031							10.9	49		3.5
Si7997DP	- 30	20	0.055		0.078							60	106	51	46

Notes:

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|--|--|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |

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P-Channel, continued

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
			V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
PowerPAK SO-8, continued															
Si7949DP	- 60	20	0.064		0.08							5	26		3.5
SO-8															
Si4931DY	- 12	8			0.018		0.022	0.028				8.9		34.5	2
Si9934BDY	- 12	8			0.035		0.056					6.4		13	2
Si4913DY	- 20	8			0.015		0.019	0.024				9.4		43	2
Si4943CDY	- 20	20	0.0192		0.033							8	41	20	3.1
Si9933CDY	- 20	12			0.058		0.094					4	17	8	3.1
Si4925DDY	- 30	20	0.029		0.041							8	32	15	5
Si4953ADY	- 30	20	0.053		0.09							4.9	15		2
Si4947ADY	- 30	20	0.08		0.135							3.9		5.8	2
Si4948BEY	- 60	20	0.12		0.15							3.1	14.5		2.4
TSSOP-8															
Si6913DQ	- 12	8			0.021		0.028	0.037				5.8		18.5	1.14
Si6943BDQ	- 12	8			0.08		0.105					2.5		5.7	1.1
Si6981DQ	- 20	8			0.031		0.041	0.058				4.8		15	1.14
Si6963BDQ	- 20	12			0.045		0.08					3.9		8.6	1.13
Si6993DQ	- 30	20	0.031		0.048							4.7		13	1.14
PowerPAK 1212-8															
Si7913DN	- 20	8			0.037		0.048	0.066				7.4		15.3	2.8
Si7911DN	- 20	8			0.051		0.067	0.094				5.7		9.5	2.5
Si7923DN	- 30	20	0.047		0.075							6.4	14		2.8
Si7905DN	- 40	20	0.06		0.089							6	20	11	20.8
TSOP-6															
Si3981DV	- 20	8			0.185		0.26	0.385				1.9		3.2	1.08
Si3993DV	- 30	20	0.133		0.245							2.2		3.1	1.15
PowerPAK ChipFET															
Si5947DU	- 20	12			0.058		0.1					6	11	5.5	10.4
1206-8 ChipFET															
Si5935CDC	- 20	8			0.1		0.12	0.156				4		6.2	3.1
Si5933CDC	- 20	8			0.144		0.18	0.222				3.7		4.1	2.8

Notes:

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|--|---|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{DS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



P-Channel, continued

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
			V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
SC70-6															
Si1917EDH	- 12	12			0.37		0.575	0.8				1.15		1.3	0.73
Si1965DH	- 12	8			0.39		0.535	0.71				1.3		1.7	1.25
Si1967DH	- 20	8			0.49		0.64	0.79				1.3		1.6	1.25
Si1903DL	- 20	12			0.995	1.19	1.8					0.44		1.2	0.3
PowerPAK SC-70															
SiA975DJ	- 12	8			0.041		0.06	0.11				4.5		10.5	7.8
SiA913ADJ	-12	8			0.061		0.81	0.115				4.5		8.2	6.5
SiA923EDJ	- 20	8			0.054		0.07	0.104	0.165			4.5		9.5	7.8
SiA921EDJ	- 20	12			0.059		0.098					4.5	15	7.1	7.8
SiA917DJ	- 20	12			0.11		0.185					4.5	6	3	6.5
SiA911ADJ	- 20	8			0.116		0.155	0.205				4.5		4.9	6.5
PowerPAK SC-75															
SiB911DK	- 20	8			0.295		0.42	0.56				2.6		1.6	3.1
SC89-6															
Si1023X	- 20				1.2		1.6	2.7				0.4		1.5	0.3
Si1025X	- 60		4		8						a	0.2	1.7		0.28

Notes:

- a. Q_g @ V_{GS} = 15 V (vs. 10 V)
- b. Q_g @ V_{GS} = 5 V (vs. 4.5 V)
- c. R_{DS} = r_{SS}/2
- d. R_{DS(on)} @ V_{GS} = 6 V (vs. 4.5 V)
- e. R_{DS(on)} @ V_{GS} = 3 V (vs. 3.3 V)
- f. R_{DS(on)} @ V_{GS} = 3.7 V (vs. 3.3 V)
- g. R_{DS(on)} @ V_{GS} = 4.75 V (vs. 4.5 V)
- h. R_{DS(on)} @ V_{GS} = 2.7V (vs. 2.5 V or 3.3 V)
- i. Not used
- j. R_{DS(on)} @ V_{GS} = 3.1 V (vs. 3.3 V)
- k. S1 and D2 connected
- l. Not used
- m. Schottky connected to channel 1
- n. Half-bridge
- o. Not used
- p. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- q. Q_g @ V_{GS} = 6 V (vs. 4.5 V)
- r. R_{DS(on)} @ V_{GS} = 8 V (vs. 6 V)
- s. R_{DS(on)} @ V_{GS} = 15 V
- t. R_{DS(on)} @ V_{GS} = 5 V
- u. R_{DS(on)} @ V_{GS} = 1.7 V (vs. 1.8 V)
- v. R_{DS(on)} @ V_{GS} = 3.5 V (vs. 3.3 V)
- w. R_{DS(on)} @ V_{GS} = 7.5 V (vs. 6 V)
- x. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- y. Q_g @ V_{GS} = 8 V (vs. 4.5 V)

N & P Channel

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω					Footnote	I _D (A)	Q _g (nC)		P _D (W)
			V _{GS} = 10 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V			V _{GS} = 1.5 V	V _{GS} = 10 V	
PowerPAK SO-8												
Si7540DP	12	8		0.017		0.025			11.8		11.5	3.5
	-12	8		0.032		0.053			8.9		13	3.5
SO-8												
Si4501ADY	30	20	0.018	0.027					8.8		11.5	2.5
	-8	8		0.042		0.06			5.7		13.5	2.5
Si4511DY	20	16	0.0145	0.017					9.6		11.5	2
	-20	12		0.033		0.05			6.2		17	2
Si4500BDY	20	12		0.02		0.03			9.1		11	2.5
	-20	12		0.06		0.1			5.3		6	2.5
Si4532CDY	30	20	0.047	0.065					6	6	2.75	2.78
	-30	20	0.089	0.14					4.3	7.8	4.1	2.78
Si4564DY	40	16	0.0175	0.02					10	20.5	9.8	3.1
	-40	20	0.021	0.028					9.2	41.5	21.7	3.2
Si4599DY	40	20	0.0355	0.0425					6.8	11.7	5.3	3
	-40	20	0.045	0.062					5.8	25	11.8	3.1
Si4559ADY	60	20	0.058	0.072					5.3	13	6	3.1
	-60	20	0.12	0.15					3.9	14.5	8	3.4
TSSOP-8												
Si6562CDQ	20	12		0.022		0.036			6.7	15	6.7	1.6
	-20	12		0.03		0.045			6.1	34	17	1.7
Si6544BDQ	30	20	0.032	0.046					4.3	9.5		1.14
	-30	20	0.043	0.073					3.8	16		1.14
TSOP-6												
Si3586DV	20	8		0.06		0.07	0.1		3.4		4.1	1.15
	-20	8		0.11		0.145	0.22		2.5		5	1.15
Si3588DV	20	8		0.08		0.1	0.128		3		5	1.15
	-20	8		0.145		0.2	0.3		2.2		5	1.15
Si3585DV	20	12		0.2		0.34			2.4		2.1	1.15
	-20	12		0.125		0.2			1.8		2.7	1.15
Si3850ADV	20	12		0.3		0.41			1.4		0.95	1.08
	-20	12		0.64		0.98			0.96		1.1	1.08

Notes:

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|--|---|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{DS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



N & P-channel, continued

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω						Footnote	I _D (A)	Q _g (nC)		P _D (W)
			V _{GS} = 10 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
TSOP-6, continued													
Si3590DV	30	12		0.077		0.12				3		3	1.15
	-30	12		0.17		0.3				2		3.8	1.15
Si3552DV	30	20	0.105	0.175						2.5		2.1	1.15
	-30	20	0.2	0.36						1.8		2.4	1.15
PowerPAK ChipFET													
Si5517DU	20	8		0.039		0.045	0.055			6		6	8.3
	-20	8		0.072		0.1	0.131			6		5.5	8.3
1206-8 ChipFET													
Si5515CDC	20	8		0.036		0.041	0.05			4		6.5	3.1
	-20	8		0.1		0.12	0.156			4		6.2	3.1
Si5513CDC	20	12		0.055		0.085				4		2.6	3.1
	-20	12		0.15		0.255				3.7		3.6	3.1
Si5511DC	30	12		0.055		0.09				4		4.2	3.1
	-30	12		0.15		0.256				3.6		3.8	2.6
Si5504BDC	30	20	0.065	0.1						4	4.5	2	3.12
	-30	20	0.14	0.235						3.7	4.5	2.2	3.1
SC70-6													
Si1555DL	20	12		0.385		0.63				0.7		0.8	0.3
	-8	8		0.6		0.85	1.2			0.6		1.5	0.3
Si1563DH	20	8		0.28		0.36	0.45			1.28		1.25	0.74
	-20	8		0.49		0.75	1.1			1		1.2	0.3
Si1553DL	20	12		0.385		0.63				0.7		0.8	0.3
	-20	12		0.995		1.8				0.44		1.2	0.3
Si1551DL	20	12		1.9		4.2				0.3		0.72	0.3
	-20	12		0.995		1.8				0.44		0.52	0.3
Si1539DL	30	20	0.48	0.7						0.63	0.86		0.3
	-30	20	0.94	1.7						0.45	0.9		0.3
PowerPAK SC-70													
SiA517DJ	12	8		0.029		0.034	0.044	0.065		4.5		5.6	6.5
	-12	8		0.061		0.081	0.115	0.17		4.5		8.2	6.5
SiA533EDJ	12	8		0.034		0.04	0.05	0.07		4.5	10	5.6	7.8
	-12	8		0.059		0.081	0.115	0.215		4.5	13	7.8	7.8

Notes:

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| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |

Low-Voltage Power MOSFETs Selector Guide



Vishay Siliconix












N & P-channel, continued

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω						Footnote	I _D (A)	Q _g (nC)		P _D (W)
			V _{GS} = 10 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
PowerPAK SC-70, continued													
SiA519EDJ	20	12		0.04		0.065				4.5	7.7	3.7	7.8
	- 20	12		0.09		0.137				4.5	10.5	5.3	7.8
SC89-6													
Si1016X	20			0.7		0.85	1.25			0.5		1.5	0.3
	- 20			1.2		1.6	2.7			0.4		0.75	0.3
Si1035X	20			5		7	9			0.14		0.75	0.2
	- 20			8		12	15			0.16		1.5	0.3
Si1029X	60		1.25	3						0.33		0.75	0.25
	- 60		5	10						0.16		1.7	0.3

Notes:

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|--|---|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |

Packaging Information

Power MOSFET Packages		Max Length (mm)	Max Width (mm)	Max Footprint Area (mm ²)	Max Height (mm)	Max Current (A)	Max Temp (°C)	R _{thJF} or R _{thJC} (°C/W)	
TO-220		10.41	4.7	48.93	29.71	85	175	0.6	
D ² PAK		15.88	10.41	165.37	4.83	110	175	0.4	
						85	175	0.6	
DPAK		10.41	6.73	70.06	2.38	70	175	1.2	
PolarPAK		6.3	5.31	33.45	0.85	45	150	1.0 + 1.0	
PowerPAK SO-8		6.2	5.26	32.61	1.2	29	150	1.5	
PowerPAK SO-8L		6.25	5.25	32.81	1.14	26	150	1.8	
SO-14		8.75	6.2	54.25	1.75	see datasheets	150	23	
SO-8		5	6.2	31.00	1.75	25	150	16	
PowerPAIR 6 x 3.7		6.08	3.81	23.16	0.8	16	150	4.6	
TSSOP-8		3.1	6.6	20.46	1.2	11	150	52	
PowerPAK 1212-8		3.4	3.4	11.56	1.2	14.4	150	2.4	
TSOP-6		3.1	2.98	9.24	1.1	6.8	150	30	
PowerPAK ChipFET		3.08	1.98	6.10	0.85	11.6	150	4	
ChipFET 1206-8		3.1	1.915	5.58	1.1	9.5	150	20	
SOT-23		3.04	2.64	8.03	1.12	4.9	150	50	
PowerPAK SC-70		2.15	2.15	4.62	0.8	12	150	6.5	
SC-70		2.2	2.4	5.28	1.1	3.9	150	45	
MICRO FOOT		See individual datasheet						150	20
PowerPAK SC-75		1.7	1.7	2.89	0.8	8	150	9.5	
SC-75A		1.6	1.7	2.72	0.8	0.5	150		
SC-89		1.7	1.7	2.89	0.6	0.5	150		



Alphanumeric Index

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)	
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V		
2N7002K	SINGLE N	SOT-23	60	20	2		4								0.3		0.4	0.35
Si1012R	SINGLE N	SC75A	20				0.7			0.85	1.25				0.5		0.75	0.15
Si1012X	SINGLE N	SC89-3	20				0.7			0.85	1.25				0.5		0.75	0.25
Si1013R	SINGLE P	SC75A	- 20				1.2			1.6	2.7				0.37		1.5	0.25
Si1013X	SINGLE P	SC89-3	- 20				1.2			1.6	2.7				0.4		1.5	0.3
Si1016X	N & P PAIR N	SC89-6	20				0.7			0.85	1.25				0.5		1.5	0.3
	N & P PAIR P		- 20				1.2			1.6	2.7				0.4		0.75	0.3
Si1021R	SINGLE P	SC75A	- 60		5		10							a	0.17	1.7		0.25
Si1022R	SINGLE N	SC75A	60		1.25		3								0.33			0.25
Si1023X	DUAL P	SC89-6	- 20				1.2			1.6	2.7				0.4		1.5	0.3
Si1024X	DUAL N	SC89-6	20				0.7			0.85	1.25				0.5		0.75	0.25
Si1025X	DUAL P	SC89-6	- 60		4		8							a	0.2	1.7		0.28
Si1026X	DUAL N	SC89-6	60		1.4		3								0.33		0.6	0.25
Si1029X	N & P PAIR N	SC89-6	60		1.25		3								0.33		0.75	0.25
	N & P PAIR P		- 60		5		10								0.16		1.7	0.3
Si1031R	SINGLE P	SC75A	- 20				8			12	15				0.14		1.5	0.25
Si1032R	SINGLE N	SC75A	20				5			7	9				0.14		0.75	0.2
Si1032X	SINGLE N	SC89-3	20				5			7	9				0.14		0.75	0.2
Si1034X	DUAL N	SC89-6	20				5			7	9				0.14		0.75	0.2
Si1035X	N & P PAIR N	SC89-6	20				5			7	9				0.14		0.75	0.2
	N & P PAIR P		- 20				8			12	15				0.16		1.5	0.3
Si1040X	LEVEL SHIFT P	SC89-6	- 8				0.625			0.89	1.25				0.43			0.174
Si1046R	SINGLE N	SC75A	20	8			0.42			0.501	0.66				0.606		0.92	0.25
Si1050X	SINGLE N	SC89-6	8	5			0.086			0.093	0.102	0.12			1.34		7.1	0.236
Si1056X	SINGLE N	SC89-6	20	8			0.089			0.098	0.121				1.32		5.2	0.236
Si1058X	SINGLE N	SC89-6	20	12			0.091			0.124					1.3		3.51	0.236
Si1065X	SINGLE P	SC89-6	- 12	8			0.13			0.158	0.205				1.18		6.7	0.236
Si1067X	SINGLE P	SC89-6	- 20	8			0.15			0.166	0.214				1.06		6	0.236
Si1069X	SINGLE P	SC89-6	- 20	12			0.184			0.268					0.94		4.23	0.236
Si1070X	SINGLE N	SC89-6	30	12			0.099			0.14					1.2		3.5	0.236
Si1071X	SINGLE P	SC89-6	- 30	12	0.167		0.188			0.244					0.96	8.87	4.43	0.236
Si1072X	SINGLE N	SC89-6	30	20	0.093		0.129								1.3	5.5	2.7	0.236

Notes:

- a. Q_g @ V_{GS} = 15 V (vs. 10 V)
- b. Q_g @ V_{GS} = 5 V (vs. 4.5 V)
- c. R_{DS} = r_{SS}/2
- d. R_{DS(on)} @ V_{GS} = 6 V (vs. 4.5 V)
- e. R_{DS(on)} @ V_{GS} = 3 V (vs. 3.3 V)
- f. R_{DS(on)} @ V_{GS} = 3.7 V (vs. 3.3 V)
- g. R_{DS(on)} @ V_{GS} = 4.75 V (vs. 4.5 V)
- h. R_{DS(on)} @ V_{GS} = 2.7 V (vs. 2.5 V or 3.3 V)
- i. Not used
- j. R_{DS(on)} @ V_{GS} = 3.1 V (vs. 3.3 V)
- k. S1 and D2 connected
- l. Not used
- m. Schottky connected to channel 1
- n. Half-bridge
- o. Not used
- p. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- q. Q_g @ V_{GS} = 6 V (vs. 4.5 V)
- r. R_{DS(on)} @ V_{GS} = 8 V (vs. 6 V)
- s. R_{DS(on)} @ V_{GS} = 15 V
- t. R_{DS(on)} @ V_{GS} = 5 V
- u. R_{DS(on)} @ V_{GS} = 1.7 V (vs. 1.8 V)
- v. R_{DS(on)} @ V_{GS} = 3.5 V (vs. 3.3 V)
- w. R_{DS(on)} @ V_{GS} = 7.5 V (vs. 6 V)
- x. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- y. Q_g @ V_{GS} = 8 V (vs. 4.5 V)



Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
Si1073X	SINGLE P	SC89-6	- 30	20	0.173		0.243							0.98	6.3	3.25	0.236
Si1300BDL	SINGLE N	SC70-3	20	8			0.85		1.08					0.4		0.56	0.2
Si1302DL	SINGLE N	SC70-3	30	20	0.48		0.7							0.64	0.86		0.31
Si1303DL	SINGLE P	SC70-3	- 20	12			0.43	0.48	0.7					0.72		1.7	0.34
Si1304BDL	SINGLE N	SC70-3	30	12			0.29		0.385					0.9		1.8	0.37
Si1305DL	SINGLE P	SC70-3	- 8	8			0.28		0.38	0.53				0.92		2.6	0.34
Si1307EDL	SINGLE P	SC70-3	- 12	8			0.29		0.435	0.58				0.91		3.2	0.34
Si1330EDL	SINGLE N	SC70-3	60	20	2.5		3	8					e	0.25		0.4	0.31
Si1400DL	SINGLE N	SC70-6	20	12			0.15		0.235					1.7		2.1	0.625
Si1403BDL	SINGLE P	SC70-6	- 20	12			0.15	0.175	0.265				p	1.5		2.9	0.625
Si1405BDH	SINGLE P	SC70-6	- 8	8			0.112		0.16	0.21				1.6		3.67	2.27
Si1406DH	SINGLE N	SC70-6	20	8			0.065		0.075	0.096				3.9		4.9	1.56
Si1410EDH	SINGLE N	SC70-6	20	12			0.07		0.08	0.1				3.7		5.6	1.56
Si1411DH	SINGLE P	SC70-6	- 150	20	2.6	2.7							d	0.52	4.2		1.56
Si1413EDH	SINGLE P	SC70-6	- 20	12			0.115		0.155	0.22				2.9		5.6	1.56
Si1417EDH	SINGLE P	SC70-6	- 12	12			0.085		0.115	0.16				3.3		5.8	1.56
Si1419DH	SINGLE P	SC70-6	- 200	20	5	5.1							d	0.38	4.1		1.56
Si1422DH	SINGLE N	SC70-6	12	8			0.026		0.03	0.036				4		7.5	2.8
Si1426DH	SINGLE N	SC70-6	30	20	0.075		0.115							3.6		1.9	1.6
Si1467DH	SINGLE P	SC70-6	- 20	8			0.09		0.115	0.15				1.6		9	2.78
Si1469DH	SINGLE P	SC70-6	- 20	12	0.08		0.1		0.155					1.6		5.5	2.78
Si1470DH	SINGLE N	SC70-6	30	12			0.066		0.095					5.1		4.85	2.8
Si1471DH	SINGLE P	SC70-6	- 30	12	0.1		0.12		0.175					1.6		6.5	2.78
Si1473DH	SINGLE P	SC70-6	- 30	20	0.1		0.145							1.6		4.1	2.78
Si1499DH	SINGLE P	SC70-6	- 8	5			0.078		0.095	0.115	0.153	0.424		1.6		10.5	2.78
Si1539DL	N & P PAIR N	SC70-6	30	20	0.48		0.7							0.63	0.86		0.3
	N & P PAIR P		- 30	20	0.94		1.7							0.45	0.9		0.3
Si1551DL	N & P PAIR N	SC70-6	20	12			1.9		4.2					0.3		0.72	0.3
	N & P PAIR P		- 20	12			0.995		1.8					0.44	0.52	0.3	
Si1553DL	N & P PAIR N	SC70-6	20	12			0.385		0.63					0.7		0.8	0.3
	N & P PAIR P		- 20	12			0.995		1.8					0.44	1.2	0.3	
Si1555DL	N & P PAIR N	SC70-6	20	12			0.385		0.63					0.7		0.8	0.3
	N & P PAIR P		- 8	8			0.6		0.85	1.2				0.6		1.5	0.3

Notes:

- a. Q_g @ V_{GS} = 15 V (vs. 10 V)
- b. Q_g @ V_{GS} = 5 V (vs. 4.5 V)
- c. R_{DS} = r_{SS}/2
- d. R_{DS(on)} @ V_{GS} = 6 V (vs. 4.5 V)
- e. R_{DS(on)} @ V_{GS} = 3 V (vs. 3.3 V)
- f. R_{DS(on)} @ V_{GS} = 3.7 V (vs. 3.3 V)
- g. R_{DS(on)} @ V_{GS} = 4.75 V (vs. 4.5 V)
- h. R_{DS(on)} @ V_{GS} = 2.7V (vs. 2.5 V or 3.3 V)
- i. Not used
- j. R_{DS(on)} @ V_{GS} = 3.1 V (vs. 3.3 V)
- k. S1 and D2 connected
- l. Not used
- m. Schottky connected to channel 1
- n. Half-bridge
- o. Not used
- p. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- q. Q_g @ V_{GS} = 6 V (vs. 4.5 V)
- r. R_{DS(on)} @ V_{GS} = 8 V (vs. 6 V)
- s. R_{DS(on)} @ V_{GS} = 15 V
- t. R_{DS(on)} @ V_{GS} = 5 V
- u. R_{DS(on)} @ V_{GS} = 1.7 V (vs. 1.8 V)
- v. R_{DS(on)} @ V_{GS} = 3.5 V (vs. 3.3 V)
- w. R_{DS(on)} @ V_{GS} = 7.5 V (vs. 6 V)
- x. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- y. Q_g @ V_{GS} = 8 V (vs. 4.5 V)

Low-Voltage Power MOSFETs Selector Guide



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Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)	
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V		
Si1563DH	N & P PAIR N	SC70-6	20	8			0.28		0.36	0.45				1.28		1.25	0.74	
	N & P PAIR P		-20	8			0.49		0.75	1.1				1		1.2	0.3	
Si1869DH	LEVEL SHIFT P	SC70-6	-20	8			0.165		0.222	0.303				1.2			1	
Si1902DL	DUAL N	SC70-6	20	12			0.385		0.63					0.7		0.8	0.3	
Si1903DL	DUAL P	SC70-6	-20	12			0.995	1.19	1.8					0.44		1.2	0.3	
Si1912EDH	DUAL N	SC70-6	20	12			0.28		0.36	0.45				1.28		0.65	0.74	
Si1917EDH	DUAL P	SC70-6	-12	12			0.37		0.575	0.8				1.15		1.3	0.73	
Si1926DL	DUAL N	SC70-6	60	20	1.4		3							0.37	0.9	0.5	0.51	
Si1958DH	DUAL N	SC70-6	20	12			0.205		0.34					1.3	2.5	1.2	1.25	
Si1967DH	DUAL P	SC70-6	-20	8			0.49		0.64	0.79				1.3		1.6	1.25	
Si1972DH	DUAL N	SC70-6	30	20	0.19		0.344							1.3		0.91	1.25	
Si1988DH	DUAL N	SC70-6	20	8			0.168		0.2	0.25				1.3		1.6	1.25	
Si2300DS	SINGLE N	SOT-23	30	12			0.068		0.085					3.6	6.5	3	1.7	
Si2301CDS	SINGLE P	SOT-23	-20	8			0.112		0.142					3.1		5.5	1.6	
Si2302CDS	SINGLE N	SOT-23	20	8			0.057		0.075					2.9		3.5	0.86	
Si2303CDS	SINGLE P	SOT-23	-30	20	0.19		0.33							2.7	4	2	2.3	
Si2304DDS	SINGLE N	SOT-23	30	20	0.06		0.075							3.6	4.5	2.1	1.7	
Si2305CDS	SINGLE P	SOT-23	-8	8			0.035		0.048	0.065				5.8		12	1.7	
Si2307CDS	SINGLE P	SOT-23	-30	20	0.088		0.138							3.5		4.1	1.8	
Si2308BDS	SINGLE N	SOT-23	60	20	0.156		0.192							2.3	4.5	2.3	1.66	
Si2309CDS	SINGLE P	SOT-23	-60	20	0.345		0.45							1.6		2.7	1.7	
Si2312CDS	SINGLE N	SOT-23	20	8			0.0318		0.0356	0.0414				6		8.8	2.1	
Si2318DS	SINGLE N	SOT-23	40	20	0.045		0.058							3.9	10		1.25	
Si2319CDS	SINGLE P	SOT-23	-40	20	0.077		0.108							4.4	13.6	7	2.5	
Si2323CDS	SINGLE P	SOT-23	-20	8			0.039		0.05	0.063				6		16	2.5	
Si2325DS	SINGLE P	SOT-23	-150	20	1.2	1.3								d	0.69	7.7	1.25	
Si2327DS	SINGLE P	SOT-23	-200	20	2.35	2.45								d	0.49	8	1.25	
Si2328DS	SINGLE N	SOT-23	100	20	0.25									1.5	3.3		1.25	
Si2333CDS	SINGLE P	SOT-23	-12	8			0.035		0.045	0.059				7.1		15	2.5	
Si2337DS	SINGLE P	SOT-23	-80	20	0.27	0.303								d, q	2.2	11	7	2.5
Si2343CDS	SINGLE P	SOT-23	-30	20	0.045		0.075							5.9	13.6	7	2.5	
Si2367DS	SINGLE P	SOT-23	-20	8			0.066		0.086	0.13				3.8		9	1.7	

Notes:

- a. Q_g @ V_{GS} = 15 V (vs. 10 V)
- b. Q_g @ V_{GS} = 5 V (vs. 4.5 V)
- c. R_{DS} = r_{SS}/2
- d. R_{DS(on)} @ V_{GS} = 6 V (vs. 4.5 V)
- e. R_{DS(on)} @ V_{GS} = 3 V (vs. 3.3 V)
- f. R_{DS(on)} @ V_{GS} = 3.7 V (vs. 3.3 V)
- g. R_{DS(on)} @ V_{GS} = 4.75 V (vs. 4.5 V)
- h. R_{DS(on)} @ V_{GS} = 2.7 V (vs. 2.5 V or 3.3 V)
- i. Not used
- j. R_{DS(on)} @ V_{GS} = 3.1 V (vs. 3.3 V)
- k. S1 and D2 connected
- l. Not used
- m. Schottky connected to channel 1
- n. Half-bridge
- o. Not used
- p. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- q. Q_g @ V_{GS} = 6 V (vs. 4.5 V)
- r. R_{DS(on)} @ V_{GS} = 8 V (vs. 6 V)
- s. R_{DS(on)} @ V_{GS} = 15 V
- t. R_{DS(on)} @ V_{GS} = 5 V
- u. R_{DS(on)} @ V_{GS} = 1.7 V (vs. 1.8 V)
- v. R_{DS(on)} @ V_{GS} = 3.5 V (vs. 3.3 V)
- w. R_{DS(on)} @ V_{GS} = 7.5 V (vs. 6 V)
- x. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- y. Q_g @ V_{GS} = 8 V (vs. 4.5 V)



Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
Si2377EDS	SINGLE P	SOT-23	-20	8			0.061		0.08	0.11	0.165			4.4		7.6	1.8
Si3407DV	SINGLE P	TSOP-6	-20	12			0.024		0.0372					8	42	21	4.2
Si3410DV	SINGLE N	TSOP-6	30	20	0.0195		0.023							8	21.8	9.2	4.1
Si3430DV	SINGLE N	TSOP-6	100	20	0.17	0.185							d	2.4	5.5		2
Si3433CDV	SINGLE P	TSOP-6	-20	8			0.038		0.046	0.06				6		18	3.3
Si3437DV	SINGLE P	TSOP-6	-150	20	0.75	0.79							d	1.4	12.2	8	3.2
Si3438DV	SINGLE N	TSOP-6	40	20	0.0355		0.0425							7.4	11.7	5.3	3.5
Si3440DV	SINGLE N	TSOP-6	150	20	0.375	0.4							d	1.5	5.4		2
Si3442BDV	SINGLE N	TSOP-6	20	12			0.057		0.09					4.2		3	1.67
Si3443CDV	SINGLE P	TSOP-6	-20	12			0.06		0.1					5.97		7.53	3.2
Si3447CDV	SINGLE P	TSOP-6	-12	8			0.036		0.05	0.068				7.8		12	3
Si3456DDV	SINGLE N	TSOP-6	30	20	0.04		0.05							6.3	6	2.8	2.7
Si3457CDV	SINGLE P	TSOP-6	-30	20	0.074		0.113							5.1	10	5.1	3
Si3458BDV	SINGLE N	TSOP-6	60	20	0.1		0.128							4.1	7.1	3.5	3.3
Si3459BDV	SINGLE P	TSOP-6	-60	20	0.216		0.288							2.9	7.7	4.4	3.3
Si3460DDV	SINGLE N	TSOP-6	20	8			0.028		0.032	0.038				7.9		6.7	2.7
Si3464DV	SINGLE N	TSOP-6	20	8	0.054		0.024		0.028	0.03				8		11	3.6
Si3469DV	SINGLE P	TSOP-6	-20	20	0.03		0.051							6.7	20		2
Si3473CDV	SINGLE P	TSOP-6	-12	8			0.022		0.028	0.036				8		26	4.2
Si3475DV	SINGLE P	TSOP-6	-200	20	1.61	1.65							d	0.95	11.7	7.8	3.2
Si3483CDV	SINGLE P	TSOP-6	-30	20	0.034		0.053							8	22	11.5	4.2
Si3493BDV	SINGLE P	TSOP-6	-20	8			0.0275		0.034	0.045				8		26.2	2.97
Si3499DV	SINGLE P	TSOP-6	-8	5			0.023		0.029	0.036	0.045			7		28	2
Si3552DV	N & P PAIR N	TSOP-6	30	20	0.105		0.175							2.5		2.1	1.15
	N & P PAIR P		-30	20	0.2		0.36							1.8		2.4	1.15
Si3585DV	N & P PAIR N	TSOP-6	20	12			0.2		0.34					2.4		2.1	1.15
	N & P PAIR P		-20	12			0.125		0.2					1.8		2.7	1.15
Si3586DV	N & P PAIR N	TSOP-6	20	8			0.06		0.07	0.1				3.4		4.1	1.15
	N & P PAIR P		-20	8			0.11		0.145	0.22				2.5		5	1.15
Si3588DV	N & P PAIR N	TSOP-6	20	8			0.08		0.1	0.128				3		5	1.15
	N & P PAIR P		-20	8			0.145		0.2	0.3				2.2		5	1.15
Si3590DV	N & P PAIR N	TSOP-6	30	12			0.077		0.12					3		3	1.15
	N & P PAIR P		-30	12			0.17		0.3					2		3.8	1.15

Notes:

- a. Q_g @ V_{GS} = 15 V (vs. 10 V)
- b. Q_g @ V_{GS} = 5 V (vs. 4.5 V)
- c. R_{DS} = r_{SS}/2
- d. R_{DS(on)} @ V_{GS} = 6 V (vs. 4.5 V)
- e. R_{DS(on)} @ V_{GS} = 3 V (vs. 3.3 V)
- f. R_{DS(on)} @ V_{GS} = 3.7 V (vs. 3.3 V)
- g. R_{DS(on)} @ V_{GS} = 4.75 V (vs. 4.5 V)
- h. R_{DS(on)} @ V_{GS} = 2.7V (vs. 2.5 V or 3.3 V)
- i. Not used
- j. R_{DS(on)} @ V_{GS} = 3.1 V (vs. 3.3 V)
- k. S1 and D2 connected
- l. Not used
- m. Schottky connected to channel 1
- n. Half-bridge
- o. Not used
- p. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- q. Q_g @ V_{GS} = 6 V (vs. 4.5 V)
- r. R_{DS(on)} @ V_{GS} = 8 V (vs. 6 V)
- s. R_{DS(on)} @ V_{GS} = 15 V
- t. R_{DS(on)} @ V_{GS} = 5 V
- u. R_{DS(on)} @ V_{GS} = 1.7 V (vs. 1.8 V)
- v. R_{DS(on)} @ V_{GS} = 3.5 V (vs. 3.3 V)
- w. R_{DS(on)} @ V_{GS} = 7.5 V (vs. 6 V)
- x. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- y. Q_g @ V_{GS} = 8 V (vs. 4.5 V)

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Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)	
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V		
Si3805DV	SINGLE PLUS INTEGRATED SCHOTTKY P	TSOP-6	- 20	12	0.084		0.108			0.175					3.3	8	4	1.4
Si3850ADV	N & P PAIR N	TSOP-6	20	12			0.3		0.41						1.4		0.95	1.08
	N & P PAIR P		- 20	12			0.64		0.98						0.96		1.1	1.08
Si3861BDV	LEVEL SHIFT P	TSOP-6	- 20	8	0.075		0.145								2.3			0.83
Si3865CDV	LEVEL SHIFT P	TSOP-6	- 12				0.06		0.095	0.13					2.8			0.83
Si3900DV	DUAL N	TSOP-6	20	12			0.125		0.2						2.4		2.1	1.15
Si3932DV	DUAL N	TSOP-6	30	20	0.058		0.073								3.7	3.7	1.8	1.4
Si3981DV	DUAL P	TSOP-6	- 20	8			0.185		0.26	0.385					1.9		3.2	1.08
Si3993DV	DUAL P	TSOP-6	- 30	20	0.133		0.245								2.2		3.1	1.15
Si4004DY	SINGLE N	SO-8	20	20	0.0138		0.0192								12	21.6	10.6	5
Si4100DY	SINGLE N	SO-8	100	20	0.063	0.084								d, q	6.8	13.5	9	6
Si4102DY	SINGLE N	SO-8	100	20	0.158	0.175								d, q	3.8	7.1	4.6	4.8
Si4104DY	SINGLE N	SO-8	100	20	0.105										4.6	8.5		5
Si4108DY	SINGLE N	SO-8	75	20	0.0098										20.5	36		7.8
Si4110DY	SINGLE N	SO-8	80	20	0.013										17.3	35		7.8
Si4114DY	SINGLE N	SO-8	20	16	0.006		0.007								20	62	27.5	5.7
Si4116DY	SINGLE N	SO-8	25	12	0.0086		0.0095		0.0115						18	37	17.5	5
Si4122DY	SINGLE N	SO-8	40	25	0.0045		0.006								27.2	62	29	6
Si4124DY	SINGLE N	SO-8	40	20	0.0075		0.009								20.5	51	21	5.7
Si4126DY	SINGLE N	SO-8	30	20	0.00275		0.0034								39	70	30	7.8
Si4134DY	SINGLE N	SO-8	30	20	0.014		0.0175								14	15.4	7.3	5
Si4136DY	SINGLE N	SO-8	20	20	0.002		0.0025								46	73	34	7.8
Si4154DY	SINGLE N	SO-8	40	20	0.0033		0.0039								36	70	32.5	7.8
Si4156DY	SINGLE N	SO-8	30	20	0.006		0.008								24	28	12	6
Si4160DY	SINGLE N	SO-8	30	20	0.0049		0.0063								25.4	36	16.8	5.7
Si4162DY	SINGLE N	SO-8	30	20	0.0079		0.01								19.3	20	8.8	5
Si4164DY	SINGLE N	SO-8	30	20	0.0032		0.0039								30	62	26.5	6
Si4166DY	SINGLE N	SO-8	30	20	0.0039		0.0055								30.5	42.5	21.5	6.5
Si4168DY	SINGLE N	SO-8	30	20	0.0057		0.0076								24	29	13.8	5.7

Notes:

- | | | | |
|--|---|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
Si4172DY	SINGLE N	SO-8	30	20	0.012		0.015						b	15	15	6.8	4.5
Si4174DY	SINGLE N	SO-8	30	20	0.0095		0.013							17	18	8	5
Si4178DY	SINGLE N	SO-8	30	25	0.021		0.033							12	7.5	3.7	5
Si4186DY	SINGLE N	SO-8	20	20	0.0026		0.0032							35.8	60	28.7	6
Si4204DY	DUAL N	SO-8	20	20	0.0046		0.006							19.8	30	14.5	3.25
Si4210DY	DUAL N	SO-8	30	20	0.0355		0.044							6.5	8	3.7	2.7
Si4214DDY	DUAL N	SO-8	30	20	0.0195		0.023							8.5	14.5	7.1	3.1
Si4226DY	DUAL N	SO-8	25	12			0.0195		0.026					8	24	11	3.2
Si4228DY	DUAL N	SO-8	25	12	0.018		0.02		0.024					8	16.5	7.8	3.1
Si4276DY	DUAL N	SO-8	30	20	0.0153		0.0184							8	17.2	8.4	3.6
			30	20	0.028		0.034							8	7.3	3.6	2.8
Si4340CDY	DUAL PLUS INTEGRATED SCHOTTKY N	SO-14	20	20	0.0094		0.0125							14.1	21	9.6	3
			20	16	0.008		0.0095							20	31	14.1	5.4
Si4396DY	SINGLE PLUS INTEGRATED SCHOTTKY N	SO-8	30	20	0.0115		0.016							16	29.6	13.3	5.4
Si4403BDY	SINGLE P	SO-8	- 20	8			0.017		0.023	0.032			b	9.9		33	2.5
Si4409DY	SINGLE P	SO-8	- 150	20	1.2	1.3							d	1.3	7.7	4.8	4.6
Si4418DY	SINGLE N	SO-8	200	20	0.13	0.142							d	3	20		2.5
Si4425DDY	SINGLE P	SO-8	- 30	20	0.098		0.0165							19.7	53	27	5.7
Si4431CDY	SINGLE P	SO-8	- 30	20	0.032		0.049							9	25	13	4.2
Si4434DY	SINGLE N	SO-8	250	20	0.155	0.162							d	3	34		3.1
Si4435DDY	SINGLE P	SO-8	- 30	20	0.024		0.035							11.4	32	15	5
Si4436DY	SINGLE N	SO-8	60	20	0.036		0.043							8	21	10.5	5
Si4446DY	SINGLE N	SO-8	40	12	0.04		0.045							5.2		8	2
Si4447DY	SINGLE P	SO-8	- 40	16	0.054		0.072							4.5		9	2
Si4455DY	SINGLE P	SO-8	- 150	20	0.295	0.315							d, q	2.8	27.5	23.2	5.9
Si4459ADY	SINGLE P	SO-8	- 30	20	0.005		0.00775							29	129	61	7.8
Si4462DY	SINGLE N	SO-8	200	20	0.48	0.51							d	1.5	6		2.5
Si4463BDY	SINGLE P	SO-8	- 20	12	0.011		0.014		0.02					13.7		37	3
Si4464DY	SINGLE N	SO-8	200	20	0.24		0.26						d	2.2	12		2.5
Si4465ADY	SINGLE P	SO-8	- 8	8			0.009		0.011	0.016				13.7		55	3

Notes:

- a. Q_g @ V_{GS} = 15 V (vs. 10 V)
- b. Q_g @ V_{GS} = 5 V (vs. 4.5 V)
- c. R_{DS} = r_{SS}/2
- d. R_{DS(on)} @ V_{GS} = 6 V (vs. 4.5 V)
- e. R_{DS(on)} @ V_{GS} = 3 V (vs. 3.3 V)
- f. R_{DS(on)} @ V_{GS} = 3.7 V (vs. 3.3 V)
- g. R_{DS(on)} @ V_{GS} = 4.75 V (vs. 4.5 V)
- h. R_{DS(on)} @ V_{GS} = 2.7V (vs. 2.5 V or 3.3 V)
- i. Not used
- j. R_{DS(on)} @ V_{GS} = 3.1 V (vs. 3.3 V)
- k. S1 and D2 connected
- l. Not used
- m. Schottky connected to channel 1
- n. Half-bridge
- o. Not used
- p. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- q. Q_g @ V_{GS} = 6 V (vs. 4.5 V)
- r. R_{DS(on)} @ V_{GS} = 8 V (vs. 6 V)
- s. R_{DS(on)} @ V_{GS} = 15 V
- t. R_{DS(on)} @ V_{GS} = 5 V
- u. R_{DS(on)} @ V_{GS} = 1.7 V (vs. 1.8 V)
- v. R_{DS(on)} @ V_{GS} = 3.5 V (vs. 3.3 V)
- w. R_{DS(on)} @ V_{GS} = 7.5 V (vs. 6 V)
- x. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- y. Q_g @ V_{GS} = 8 V (vs. 4.5 V)

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Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
Si4470EY	SINGLE N	SO-8	60	20	0.011	0.013							d	12.7	46		3.75
Si4472DY	SINGLE N	SO-8	150	20	0.045	0.047							r	7.7	28.5		5.9
Si4477DY	SINGLE P	SO-8	- 20	12			0.0062		0.0105					26.6	125	59	6.6
Si4483ADY	SINGLE P	SO-8	- 30	25	0.0088		0.0153							19.2	90	44.8	5.9
Si4484EY	SINGLE N	SO-8	100	20	0.034	0.04							d	6.9	24		3.8
Si4485DY	SINGLE P	SO-8	- 30	20	0.042		0.072							6	13.6	7	5
Si4486EY	SINGLE N	SO-8	100	20	0.025	0.028							d	7.9	36		3.8
Si4487DY	SINGLE P	SO-8	- 30	25	0.0205		0.0375							11.6	24	12.4	5
Si4488DY	SINGLE N	SO-8	150	20	0.05									5	30		3.1
Si4490DY	SINGLE N	SO-8	200	20	0.08	0.09							d	4	34		3.1
Si4497DY	SINGLE P	SO-8	- 30	20	0.0033		0.0046							36	190	90	7.8
Si4500BDY	N & P PAIR N	SO-8	20	12			0.02		0.03					9.1		11	2.5
	N & P PAIR P		- 20	12			0.06		0.1					5.3		6	2.5
Si4501ADY	N & P PAIR N	SO-8	30	20	0.018		0.027							8.8		11.5	2.5
	N & P PAIR P		- 8	8			0.042		0.06					5.7		13.5	2.5
Si4511DY	N & P PAIR N	SO-8	20	16	0.0145		0.017							9.6		11.5	2
	N & P PAIR P		- 20	12			0.033		0.05					6.2		17	2
Si4532CDY	N & P PAIR N	SO-8	30	20	0.047		0.065							6	6	2.75	2.78
	N & P PAIR P		- 30	20	0.089		0.14							4.3	7.8	4.1	2.78
Si4559ADY	N & P PAIR N	SO-8	60	20	0.058		0.072							5.3	13	6	3.1
	N & P PAIR P		- 60	20	0.12		0.15							3.9	14.5	8	3.4
Si4599DY	N & P PAIR N	SO-8	40	20	0.0355		0.0425							6.8	11.7	5.3	3
	N & P PAIR P		- 40	20	0.045		0.062							5.8	25	11.8	3.1
Si4618DY	DUAL PLUS INTEGRATED SCHOTTKY N	SO-8	30	16	0.017		0.0195							8	29	12.5	1.98
			30	16	0.01		0.0115							15.2	39	17	4.16
Si4620DY	SINGLE PLUS INTEGRATED SCHOTTKY N	SO-8	30	20	0.035		0.052							7.5	8.6	4.2	3.1
Si4622DY	DUAL PLUS INTEGRATED SCHOTTKY (SkyFET) N	SO-8	30	20	0.016		0.0186							8	40	19	3.3
			30	16	0.0264		0.029							8	13.2	6	3.1

Notes:

- | | | | |
|--|---|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)	
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V		
Si4628DY	SINGLE PLUS INTEGRATED SCHOTTKY (SkyFET) N	SO-8	30	20	0.003		0.0038								38	58	27.5	7.8
Si4630DY	SINGLE N	SO-8	25	16	0.0027		0.0032								40	107.5	49	7.8
Si4634DY	SINGLE N	SO-8	30	20	0.0052		0.0067								24.5	45.5	21.5	5.7
Si4636DY	SINGLE PLUS INTEGRATED SCHOTTKY N	SO-8	30	16	0.0085		0.0105								17	40	18.8	4.4
Si4638DY	SINGLE PLUS INTEGRATED SCHOTTKY (SkyFET) N	SO-8	30	20	0.0065		0.008								22.4	66.5	27.5	5.9
Si4654DY	SINGLE N	SO-8	25	16	0.004		0.005								28.6	63	29	5.9
Si4666DY	SINGLE N	SO-8	25	12	0.01		0.011		0.014						16.5	22.4	10.7	5
Si4670DY	DUAL PLUS INTEGRATED SCHOTTKY N	SO-8	25	16	0.023		0.028								8	12	5.5	2.8
			25	16	0.023		0.028									8	12	5.5
Si4712DY	SINGLE PLUS INTEGRATED SCHOTTKY (SkyFET) N	SO-8	30	20	0.013		0.0165								14.6	18.5	8.3	5
Si4778DY	SINGLE N	SO-8	25	16	0.023		0.028								8	12	5.5	5
Si4804CDY	DUAL N	SO-8	30	20	0.022		0.027								8	15.4	7	3.1
Si4812BDY	SINGLE PLUS INTEGRATED SCHOTTKY N	SO-8	30	20	0.016		0.021							b	9.5		8.5	2.5
Si4816BDY	DUAL PLUS INTEGRATED SCHOTTKY N	SO-8	30	20	0.0185		0.0225								6.8		7.8	1.4
			30	20	0.0115		0.016								b, k	11.4		11.6
Si4823DY	DUAL PLUS INTEGRATED SCHOTTKY P	SO-8	- 20	12			0.108		0.175						4.1	8	4	2.8
Si4825DDY	SINGLE P	SO-8	- 30	25	0.0125		0.0205								14.9	57	29.5	5
Si4829DY	SINGLE PLUS INTEGRATED SCHOTTKY P	SO-8	- 20	12			0.215		0.32						2	5.2	2.6	3.1
Si4830CDY	DUAL PLUS INTEGRATED SCHOTTKY N	SO-8	30	20	0.02		0.025								8	16.5	7.3	2.9

Notes:

- a. Q_g @ V_{GS} = 15 V (vs. 10 V)
- b. Q_g @ V_{GS} = 5 V (vs. 4.5 V)
- c. R_{DS} = r_{SS}/2
- d. R_{DS(on)} @ V_{GS} = 6 V (vs. 4.5 V)
- e. R_{DS(on)} @ V_{GS} = 3 V (vs. 3.3 V)
- f. R_{DS(on)} @ V_{GS} = 3.7 V (vs. 3.3 V)
- g. R_{DS(on)} @ V_{GS} = 4.75 V (vs. 4.5 V)
- h. R_{DS(on)} @ V_{GS} = 2.7V (vs. 2.5 V or 3.3 V)
- i. Not used
- j. R_{DS(on)} @ V_{GS} = 3.1 V (vs. 3.3 V)
- k. S1 and D2 connected
- l. Not used
- m. Schottky connected to channel 1
- n. Half-bridge
- o. Not used
- p. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- q. Q_g @ V_{GS} = 6 V (vs. 4.5 V)
- r. R_{DS(on)} @ V_{GS} = 8 V (vs. 6 V)
- s. R_{DS(on)} @ V_{GS} = 15 V
- t. R_{DS(on)} @ V_{GS} = 5 V
- u. R_{DS(on)} @ V_{GS} = 1.7 V (vs. 1.8 V)
- v. R_{DS(on)} @ V_{GS} = 3.5 V (vs. 3.3 V)
- w. R_{DS(on)} @ V_{GS} = 7.5 V (vs. 6 V)
- x. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- y. Q_g @ V_{GS} = 8 V (vs. 4.5 V)

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Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)	
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V		
Si4835DDY	SINGLE P	SO-8	- 30	25	0.018		0.03								13	43	22	5.6
Si4838BDY	SINGLE N	SO-8	12	8			0.0027		0.0032	0.004					34		56	5.7
Si4840BDY	SINGLE N	SO-8	40	20	0.009		0.012								19	33	15	6
Si4848DY	SINGLE N	SO-8	150	20	0.085	0.095								d	3.7	17		3
Si4850EY	SINGLE N	SO-8	60	20	0.022		0.031								8.5	18		3.3
Si4866BDY	SINGLE N	SO-8	12	8			0.0053		0.006	0.0074					21.5		52	4.45
Si4890BDY	SINGLE N	SO-8	30	25	0.012		0.016								16	22	10	5.7
Si4896DY	SINGLE N	SO-8	80	20	0.0165	0.022								d	9.5	34		3.1
Si4904DY	DUAL N	SO-8	40	16	0.016		0.019								8	56	26	3.25
Si4906DY	DUAL N	SO-8	40	16	0.039		0.05								6.6	14.4	6.6	3.1
Si4910DY	DUAL N	SO-8	40	16	0.027		0.032								7.6	21	9.6	3.1
Si4913DY	DUAL P	SO-8	- 20	8			0.015		0.019	0.024					9.4		43	2
Si4914BDY	DUAL PLUS INTEGRATED SCHOTTKY N	SO-8	30	20	0.021		0.027								8.4		6.7	2.7
			30	20	0.02		0.025									8		7
Si4916DY	DUAL PLUS INTEGRATED SCHOTTKY N	SO-8	30	20	0.018		0.023								10		6.6	3.3
			30	20	0.018		0.022									10.5		8.9
Si4925DDY	DUAL P	SO-8	- 30	20	0.029		0.041								8	32	15	5
Si4931DY	DUAL P	SO-8	- 12	8			0.018		0.022	0.028					8.9		34.5	2
Si4932DY	DUAL N	SO-8	30	20	0.015		0.017								8	32	14.7	3.2
Si4936CDY	DUAL N	SO-8	30	20	0.04		0.05								5.8	6	2.8	2.3
Si4943CDY	DUAL P	SO-8	- 20	20	0.0192		0.033								8	41	20	3.1
Si4946BEY	DUAL N	SO-8	60	20	0.041		0.052							b	6.5	17	9.2	3.7
Si4947ADY	DUAL P	SO-8	- 30	20	0.08		0.135								3.9		5.8	2
Si4948BEY	DUAL P	SO-8	- 60	20	0.12		0.15								3.1	14.5		2.4
Si4952DY	DUAL N	SO-8	25	16	0.023		0.028								8	12	5.5	2.8
Si4953ADY	DUAL P	SO-8	- 30	20	0.053		0.09								4.9	15		2
Si4992EY	DUAL N	SO-8	75	20	0.048		0.062								4.8	14		2.4
Si5402BDC	SINGLE N	1206-8 ChipFET	30	20	0.035		0.042								6.7	10		2.5
Si5403DC	SINGLE P	1206-8 ChipFET	- 30	20	0.03		0.044								6	28	15	6.3
Si5406CDC	SINGLE N	1206-8 ChipFET	12	8			0.02		0.023	0.027					6		11.5	5.7

Notes:

- | | | | |
|--|---|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
Si5410DU	SINGLE N	PowerPAK ChipFET	40	20	0.018		0.021							12	21	10	31
Si5414DC	SINGLE N	1206-8 ChipFET	20	12			0.017		0.022					6	27	12.5	6.3
Si5418DU	SINGLE N	PowerPAK ChipFET	30	20	0.0145		0.0185							12	20	9.5	31
Si5419DU	SINGLE P	PowerPAK ChipFET	-30	20	0.02		0.033							12	30	15.5	31
Si5424DC	SINGLE N	1206-8 ChipFET	30	25	0.024		0.03							6	21	11	9
Si5432DC	SINGLE N	1206-8 ChipFET	20	12			0.02		0.025					6	22	10	6.3
Si5433BDC	SINGLE P	1206-8 ChipFET	-20	8			0.037		0.05	0.07				6.7		15	2.5
Si5435BDC	SINGLE P	1206-8 ChipFET	-30	20	0.045		0.08							5.9	16		2.5
Si5440DC	SINGLE N	1206-8 ChipFET	30	20	0.019		0.024							6	19	9	6.3
Si5441BDC	SINGLE P	1206-8 ChipFET	-20	12			0.045	0.052	0.08					6.1		11.5	2.5
Si5456DU	SINGLE N	PowerPAK ChipFET	20	20	0.01		0.0135							12	20	9.8	31
Si5458DU	SINGLE N	PowerPAK ChipFET	30	20	0.041		0.051							6	6	2.8	10.4
Si5459DU	SINGLE P	PowerPAK ChipFET	-20	12			0.052		0.082					8	17	8	10.9
Si5468DC	SINGLE N	1206-8 ChipFET	30	20	0.028		0.034							6	8	3.8	5.7
Si5471DC	SINGLE P	1206-8 ChipFET	-20	12			0.02		0.028	0.062				6	64	30	6.3
Si5475DDC	SINGLE P	1206-8 ChipFET	-12	8			0.032		0.04	0.052				6		20	5.7
Si5476DU	SINGLE N	PowerPAK ChipFET	60	20	0.034		0.041							12	21	10.5	31
Si5486DU	SINGLE N	PowerPAK ChipFET	20	8			0.015		0.017	0.021				12		21	31
Si5499DC	SINGLE P	1206-8 ChipFET	-8	5			0.036		0.045	0.056	0.077			6		14	6.2

Notes:

- a. Q_g @ V_{GS} = 15 V (vs. 10 V)
- b. Q_g @ V_{GS} = 5 V (vs. 4.5 V)
- c. R_{DS} = r_{SS}/2
- d. R_{DS(on)} @ V_{GS} = 6 V (vs. 4.5 V)
- e. R_{DS(on)} @ V_{GS} = 3 V (vs. 3.3 V)
- f. R_{DS(on)} @ V_{GS} = 3.7 V (vs. 3.3 V)
- g. R_{DS(on)} @ V_{GS} = 4.75 V (vs. 4.5 V)
- h. R_{DS(on)} @ V_{GS} = 2.7V (vs. 2.5 V or 3.3 V)
- i. Not used
- j. R_{DS(on)} @ V_{GS} = 3.1 V (vs. 3.3 V)
- k. S1 and D2 connected
- l. Not used
- m. Schottky connected to channel 1
- n. Half-bridge
- o. Not used
- p. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- q. Q_g @ V_{GS} = 6 V (vs. 4.5 V)
- r. R_{DS(on)} @ V_{GS} = 8 V (vs. 6 V)
- s. R_{DS(on)} @ V_{GS} = 15 V
- t. R_{DS(on)} @ V_{GS} = 5 V
- u. R_{DS(on)} @ V_{GS} = 1.7 V (vs. 1.8 V)
- v. R_{DS(on)} @ V_{GS} = 3.5 V (vs. 3.3 V)
- w. R_{DS(on)} @ V_{GS} = 7.5 V (vs. 6 V)
- x. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- y. Q_g @ V_{GS} = 8 V (vs. 4.5 V)

Low-Voltage Power MOSFETs Selector Guide



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Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
Si5504BDC	N & P PAIR N	1206-8 ChipFET	30	20	0.065		0.1							4	4.5	2	3.12
	N & P PAIR P		-30	20	0.14		0.235							3.7	4.5	2.2	3.1
Si5511DC	N & P PAIR N	1206-8 ChipFET	30	12			0.055		0.09					4		4.2	3.1
	N & P PAIR P		-30	12			0.15		0.256					3.6		3.8	2.6
Si5513CDC	N & P PAIR N	1206-8 ChipFET	20	12			0.055		0.085					4		2.6	3.1
	N & P PAIR P		-20	12			0.15		0.255					3.7		3.6	3.1
Si5515CDC	N & P PAIR N	1206-8 ChipFET	20	8			0.036		0.041	0.05				4		6.5	3.1
	N & P PAIR P		-20	8			0.1		0.12	0.156				4		6.2	3.1
Si5517DU	N & P PAIR N	PowerPAK ChipFET	20	8			0.039		0.045	0.055				6		6	8.3
	N & P PAIR P		-20	8			0.072		0.1	0.131				6		5.5	8.3
Si5853DDC	SINGLE PLUS INTEGRATED SCHOTTKY P	1206-8 ChipFET	-20	8			0.105		0.143	0.188				4		4.7	3.1
Si5855CDC	SINGLE PLUS INTEGRATED SCHOTTKY P	1206-8 ChipFET	-20	8			0.144		0.18	0.222				3.7	4.5	4.1	2.8
Si5856DC	SINGLE PLUS INTEGRATED SCHOTTKY N	1206-8 ChipFET	20	8			0.04		0.045	0.052				5.9		5	2.1
Si5902BDC	DUAL N	1206-8 ChipFET	30	20	0.065		0.1							4	4.5	2	3.12
Si5904DC	DUAL N	1206-8 ChipFET	20	12			0.075		0.134					4.2		4	2.1
Si5906DU	DUAL N	PowerPAK ChipFET	30	20	0.031		0.04							6	5.7	2.9	10.4
Si5908DC	DUAL N	1206-8 ChipFET	20	8			0.04		0.045	0.052				5.9		5	2.1
Si5913DC	SINGLE PLUS INTEGRATED SCHOTTKY P	1206-8 ChipFET	-20	12	0.084		0.108		0.175					4	8	4	3.1
Si5920DC	DUAL N	1206-8 ChipFET	8	5			0.032		0.036	0.045	0.054			8.4		7.3	3.12
Si5933CDC	DUAL P	1206-8 ChipFET	-20	8			0.144		0.18	0.222				3.7		4.1	2.8
Si5935CDC	DUAL P	1206-8 ChipFET	-20	8			0.1		0.12	0.156				4		6.2	3.1
Si5944DU	DUAL N	PowerPAK ChipFET	40	20	0.112		0.171							6	4.4	2.2	10

Notes:

- | | | | |
|--|---|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
Si5947DU	DUAL P	PowerPAK ChipFET	- 20	12			0.058		0.1					6	11	5.5	10.4
Si5980DU	DUAL N	PowerPAK ChipFET	100	20	0.567									2.5	2.2		7.8
Si6410DQ	SINGLE N	TSSOP-8	30	20	0.014		0.021							7.8		22.5	1.5
Si6415DQ	SINGLE P	TSSOP-8	- 30	20	0.019		0.03							6.5	47		1.5
Si6423DQ	SINGLE P	TSSOP-8	- 12	8			0.0085		0.0106	0.014			b	9.5		74	1.5
Si6433BDQ	SINGLE P	TSSOP-8	- 12	8			0.04		0.07					4.8		10	1.5
Si6435ADQ	SINGLE P	TSSOP-8	- 30	20	0.03		0.055							5.5		15	1.5
Si6443DQ	SINGLE P	TSSOP-8	- 30	20	0.012		0.019							8.8		38	1.5
Si6459BDQ	SINGLE P	TSSOP-8	- 60	20	0.115		0.15							2.7	14.5		1.5
Si6463BDQ	SINGLE P	TSSOP-8	- 20	8			0.015		0.02	0.027				7.4		40	1.5
Si6467BDQ	SINGLE P	TSSOP-8	- 12	8			0.0125		0.0155	0.02				8		46	1.5
Si6544BDQ	N & P PAIR N	TSSOP-8	30	20	0.032		0.046							4.3	9.5		1.14
	N & P PAIR P		- 30	20	0.043		0.073							3.8	16		1.14
Si6562CDQ	N & P PAIR N	TSSOP-8	20	12			0.022		0.036					6.7	15	6.7	1.6
	N & P PAIR P		- 20	12			0.03		0.045					6.1	34	17	1.7
Si6913DQ	DUAL P	TSSOP-8	- 12	8			0.021		0.028	0.037				5.8		18.5	1.14
Si6924AEDQ	COMMON DRAIN N	TSSOP-8	28	14			0.033	0.038	0.042				e	4.6		6.5	1.3
Si6925ADQ	DUAL N	TSSOP-8	20	12			0.045	0.055	0.065				e	3.9		4	1.13
Si6926ADQ	DUAL N	TSSOP-8	20	8			0.03	0.033	0.035	0.043			e	4.5		7.5	1
Si6928DQ	DUAL N	TSSOP-8	30	20	0.035		0.05							4		9	1
Si6943BDQ	DUAL P	TSSOP-8	- 12	8			0.08		0.105					2.5		5.7	1.1
Si6954ADQ	DUAL N	TSSOP-8	30	20	0.053		0.075							3.4	8		1
Si6963BDQ	DUAL P	TSSOP-8	- 20	12			0.045		0.08					3.9		8.6	1.13
Si6968BEDQ	COMMON DRAIN N	TSSOP-8	20	12			0.022		0.03					6.5		12	1.5
Si6981DQ	DUAL P	TSSOP-8	- 20	8			0.031		0.041	0.058				4.8		15	1.14
Si6993DQ	DUAL P	TSSOP-8	- 30	20	0.031		0.048							4.7		13	1.14
Si7102DN	SINGLE N	PowerPAK 1212-8	12	8			0.0038		0.0047					35		41	52
Si7113DN	SINGLE P	PowerPAK 1212-8	- 100	20	0.113		0.145							13.2	35	16.5	52

Notes:

- a. Q_g @ V_{GS} = 15 V (vs. 10 V)
- b. Q_g @ V_{GS} = 5 V (vs. 4.5 V)
- c. R_{DS} = r_{SS}/2
- d. R_{DS(on)} @ V_{GS} = 6 V (vs. 4.5 V)
- e. R_{DS(on)} @ V_{GS} = 3 V (vs. 3.3 V)
- f. R_{DS(on)} @ V_{GS} = 3.7 V (vs. 3.3 V)
- g. R_{DS(on)} @ V_{GS} = 4.75 V (vs. 4.5 V)
- h. R_{DS(on)} @ V_{GS} = 2.7V (vs. 2.5 V or 3.3 V)
- i. Not used
- j. R_{DS(on)} @ V_{GS} = 3.1 V (vs. 3.3 V)
- k. S1 and D2 connected
- l. Not used
- m. Schottky connected to channel 1
- n. Half-bridge
- o. Not used
- p. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- q. Q_g @ V_{GS} = 6 V (vs. 4.5 V)
- r. R_{DS(on)} @ V_{GS} = 8 V (vs. 6 V)
- s. R_{DS(on)} @ V_{GS} = 15 V
- t. R_{DS(on)} @ V_{GS} = 5 V
- u. R_{DS(on)} @ V_{GS} = 1.7 V (vs. 1.8 V)
- v. R_{DS(on)} @ V_{GS} = 3.5 V (vs. 3.3 V)
- w. R_{DS(on)} @ V_{GS} = 7.5 V (vs. 6 V)
- x. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- y. Q_g @ V_{GS} = 8 V (vs. 4.5 V)

Low-Voltage Power MOSFETs Selector Guide



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Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)	
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V		
Si7114ADN	SINGLE N	PowerPAK 1212-8	30	20	0.0075		0.0098								35	21	10.2	39
Si7115DN	SINGLE P	PowerPAK 1212-8	- 150	20	0.295	0.315								d	8.9	27.5	23.2	52
Si7117DN	SINGLE P	PowerPAK 1212-8	- 150	20	1.2	1.3								d	2.17	7.7		12.5
Si7119DN	SINGLE P	PowerPAK 1212-8	- 200	20	1.05	1.1								d	3.8	16.2	10.6	52
Si7120ADN	SINGLE N	PowerPAK 1212-8	60	20	0.021		0.031								9.5	30		3.8
Si7121DN	SINGLE P	PowerPAK 1212-8	- 30	25	0.018		0.0305								16	43	22	52
Si7129DN	SINGLE P	PowerPAK 1212-8	- 30	20	0.0114		0.02								35	47.5	24.6	52.1
Si7135DP	SINGLE P	PowerPAK SO-8	- 30	20	0.0039		0.0062								60	167	78	104
Si7137DP	SINGLE P	PowerPAK SO-8	- 20	12	0.00195		0.0025		0.0039						60	390	188	104
Si7139DP	SINGLE P	PowerPAK SO-8	- 30	20	0.0055		0.0009								40	97	49.5	48
Si7141DP	SINGLE P	PowerPAK SO-8	- 20	20	0.0019		0.003								60	265	128	104
Si7143DP	SINGLE P	PowerPAK SO-8	- 30	20	0.01		0.0186								35	47.5	24.6	35.7
Si7145DP	SINGLE P	PowerPAK SO-8	- 30	20	0.0026		0.00375								60	275	129	104
Si7148DP	SINGLE N	PowerPAK SO-8	75	20	0.011		0.0145								28	68	33	96
Si7149DP	SINGLE P	PowerPAK SO-8	- 30	25	0.0052		0.0094								50	98	51	69
Si7164DP	SINGLE N	PowerPAK SO-8	60	20	0.00625										60	49.5		104
Si7172DP	SINGLE N	PowerPAK SO-8	200	20	0.07	0.076								d, q	25	51	34	96
Si7174DP	SINGLE N	PowerPAK SO-8	75	20	0.007										60	47.5		104
Si7186DP	SINGLE N	PowerPAK SO-8	80	20	0.0125										32	46		64

Notes:

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|--|---|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)	
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V		
Si7190DP	SINGLE N	PowerPAK SO-8	250	20	0.118	0.124								d, q	18.4	48	32	96
Si7212DN	DUAL N	PowerPAK 1212-8	30	12	0.036		0.039								6.8		7	2.6
Si7216DN	DUAL N	PowerPAK 1212-8	40	20	0.032		0.039								6	12.5	5.5	20.8
Si7220DN	DUAL N	PowerPAK 1212-8	60	20	0.06		0.075								4.8	13		2.6
Si7222DN	DUAL N	PowerPAK 1212-8	40	12	0.042		0.047								6	19	8	17.8
Si7224DN	DUAL N	PowerPAK 1212-8	30	16	0.035		0.042								6	9.5	4.5	17.8
			30	20	0.028		0.035									6	12	5.5
Si7228DN	DUAL N	PowerPAK 1212-8	30	20	0.02		0.025								26	8.5	4.1	23
Si7232DN	DUAL N	PowerPAK 1212-8	20	8			0.0164		0.02	0.024					25		12	23
Si7234DP	DUAL N	PowerPAK SO-8	12	12			0.0034		0.005						60	80	37	46
Si7236DP	DUAL N	PowerPAK SO-8	20	12			0.0052		0.007						60	68	31	46
Si7272DP	DUAL N	PowerPAK SO-8	30	20	0.0093		0.0124								25	17	8.2	22
Si7288DP	DUAL N	PowerPAK SO-8	40	20	0.019		0.022								20	10	4.9	15.6
Si7308DN	SINGLE N	PowerPAK 1212-8	60	20	0.058		0.072								6	13	6	19.8
Si7309DN	SINGLE P	PowerPAK 1212-8	- 60	20	0.115		0.146								8	14.5	7.5	19.8
Si7322DN	SINGLE N	PowerPAK 1212-8	100	20	0.058										18	13		52
Si7370DP	SINGLE N	PowerPAK SO-8	60	20	0.011	0.013								d	15.8	46		5.2
Si7403BDN	SINGLE P	PowerPAK 1212-8	- 20	8			0.074		0.11						8		5.6	9.6
Si7405BDN	SINGLE P	PowerPAK 1212-8	- 12	8			0.013		0.017	0.024					16		46	33
Si7411DN	SINGLE P	PowerPAK 1212-8	- 20	8			0.019		0.025	0.034					11.4		27	3.6

Notes:

- | | | | |
|--|--|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |

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Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)	
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V		
Si7414DN	SINGLE N	PowerPAK 1212-8	60	20	0.025		0.036							r	8.7	16		3.8
Si7415DN	SINGLE P	PowerPAK 1212-8	- 60	20	0.065		0.11								5.7	15		3.8
Si7430DP	SINGLE N	PowerPAK SO-8	150	20	0.045	0.047								d	26	28.5		64
Si7431DP	SINGLE P	PowerPAK SO-8	- 200	20	0.174	0.18								d	3.8	88		5.4
Si7434DP	SINGLE N	PowerPAK SO-8	250	20	0.155	0.162								d	3.8	34		5.2
Si7439DP	SINGLE P	PowerPAK SO-8	- 150	20	0.09	0.095								d	5.2	88		5.4
Si7450DP	SINGLE N	PowerPAK SO-8	200	20	0.08	0.09								d	5.3	34		5.2
Si7454CDP	SINGLE N	PowerPAK SO-8	100	20	0.0305	0.033	0.043							w	22	12.8	6.3	29.7
Si7456CDP	SINGLE N	PowerPAK SO-8	100	20	0.0235	0.0245	0.0315							w	27.5	15	7.7	35.7
Si7460DP	SINGLE N	PowerPAK SO-8	60	20	0.0096		0.012								18	65		5.4
Si7461DP	SINGLE P	PowerPAK SO-8	- 60	20	0.0145		0.019								14.4	121		5.4
Si7462DP	SINGLE N	PowerPAK SO-8	200	20	0.13	0.142								d	4.1	20		4.8
Si7463DP	SINGLE P	PowerPAK SO-8	- 40	20	0.0092		0.014								18.6	121		5.4
Si7464DP	SINGLE N	PowerPAK SO-8	200	20	0.24	0.26								d	2.8	12		4.2
Si7465DP	SINGLE P	PowerPAK SO-8	- 60	20	0.064		0.08								5	26		3.5
Si7469DP	SINGLE P	PowerPAK SO-8	- 80	20	0.025		0.029								28	105	55	83
Si7478DP	SINGLE N	PowerPAK SO-8	60	20	0.0075		0.0088								20	105		5.4
Si7489DP	SINGLE P	PowerPAK SO-8	- 100	20	0.041		0.047								28	106	54	83
Si7540DP	N & P PAIR N	PowerPAK SO-8	12	8			0.017		0.025						11.8		11.5	3.5
	N & P PAIR P		- 12	8			0.032		0.053							8.9		13

Notes:

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| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
Si7611DN	SINGLE P	PowerPAK 1212-8	- 40	20	0.025		0.033							18	41	21	39
Si7613DN	SINGLE P	PowerPAK 1212-8	- 20	16	0.0087		0.014							35	58	28.1	52.1
Si7615DN	SINGLE P	PowerPAK 1212-8	- 20	12	0.0039		0.0055		0.0098					35	122	62	52
Si7617DN	SINGLE P	PowerPAK 1212-8	- 30	25	0.0123		0.0222							35	39	20.5	52
Si7619DN	SINGLE P	PowerPAK 1212-8	- 30	20	0.021		0.034							24	32	15	27.8
Si7621DN	SINGLE P	PowerPAK 1212-8	- 20	12			0.09		0.18					4		3.9	12.5
Si7625DN	SINGLE P	PowerPAK 1212-8	- 30	20	0.007		0.011							35	84.5	39.5	52
Si7633DP	SINGLE P	PowerPAK SO-8	- 20	20	0.0033		0.0055							60	173	85	104
Si7634BDP	SINGLE N	PowerPAK SO-8	30	20	0.0054		0.007							40	45.5	21.5	48
Si7635DP	SINGLE P	PowerPAK SO-8	- 20	16	0.0049		0.0075							40	95.3	46.5	54
Si7658ADP	SINGLE N	PowerPAK SO-8	30	20	0.0022		0.0028							60	74	34	83
Si7703EDN	SINGLE PLUS INTEGRATED SCHOTTKY P	PowerPAK 1212-8	- 20	12			0.048		0.068	0.09				6.3		12	2.8
Si7716ADN	SINGLE N	PowerPAK 1212-8	30	20	0.0135		0.0165							16	15.4	7.3	27.7
Si7720DN	SINGLE PLUS INTEGRATED SCHOTTKY (SkyFET) N	PowerPAK 1212-8	30	20	0.0125		0.015							12	30	13.7	52
Si7726DN	SINGLE PLUS INTEGRATED SCHOTTKY (SkyFET) N	PowerPAK 1212-8	30	20	0.0095		0.0125							35	28.5	12.5	52
Si7738DP	SINGLE N	PowerPAK SO-8	150	20	0.038									30	35		96

Notes:

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| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |

Low-Voltage Power MOSFETs Selector Guide



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Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)	
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V		
Si7742DP	SINGLE PLUS INTEGRATED SCHOTTKY (SkyFET) N	PowerPAK SO-8	30	20	0.0035		0.0045								60	75	34	83
Si7748DP	SINGLE PLUS INTEGRATED SCHOTTKY (SkyFET) N	PowerPAK SO-8	30	20	0.0048		0.0066								50	61	27.8	56
Si7758DP	SINGLE PLUS INTEGRATED SCHOTTKY (SkyFET) N	PowerPAK SO-8	30	20	0.0029		0.0038								60	105	46	104
Si7772DP	SINGLE PLUS INTEGRATED SCHOTTKY (SkyFET) N	PowerPAK SO-8	30	20	0.013		0.0165								35.6	18.5	8.3	29.8
Si7802DN	SINGLE N	PowerPAK 1212-8	250	20	0.435	0.445								d	1.95	14		3.8
Si7810DN	SINGLE N	PowerPAK 1212-8	100	20	0.062	0.084								d	5.4	13		3.8
Si7812DN	SINGLE N	PowerPAK 1212-8	75	20	0.037		0.046								16	16	8	52
Si7818DN	SINGLE N	PowerPAK 1212-8	150	20	0.135	0.142								d	3.4	20		3.8
Si7820DN	SINGLE N	PowerPAK 1212-8	200	20	0.24	0.25								d	2.6	12.1		3.8
Si7850DP	SINGLE N	PowerPAK SO-8	60	20	0.022		0.031								10.3	18		4.5
Si7852ADP	SINGLE N	PowerPAK SO-8	80	20	0.017	0.021								r	30	30.5		62.5
Si7852DP	SINGLE N	PowerPAK SO-8	80	20	0.0165	0.022								d	12.5	34		5.2
Si7858BDP	SINGLE N	PowerPAK SO-8	12	8			0.0025		0.003	0.0037					40		56	48
Si7872DP	DUAL PLUS INTEGRATED SCHOTTKY N	PowerPAK SO-8	30	20	0.022		0.03								10		7	3.5
			30	12	0.022		0.028									10		11.5
Si7898DP	SINGLE N	PowerPAK SO-8	150	20	0.085	0.095								d	4.8	17		5

Notes:

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| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
Si7900AEDN	COMMON DRAIN N	PowerPAK 1212-8	20	12			0.026		0.03	0.036				8.5		10.5	3.1
Si7904BDN	DUAL N	PowerPAK 1212-8	20	8			0.03		0.036	0.045				6		9	17.8
Si7905DN	DUAL P	PowerPAK 1212-8	- 40	20	0.06		0.089							6	20	11	20.8
Si7911DN	DUAL P	PowerPAK 1212-8	- 20	8			0.051		0.067	0.094				5.7		9.5	2.5
Si7913DN	DUAL P	PowerPAK 1212-8	- 20	8			0.037		0.048	0.066				7.4		15.3	2.8
Si7922DN	DUAL N	PowerPAK 1212-8	100	20	0.195	0.23							d	2.5	5.2		2.6
Si7923DN	DUAL P	PowerPAK 1212-8	- 30	20	0.047		0.075							6.4	14		2.8
Si7938DP	DUAL N	PowerPAK SO-8	40	20	0.0058		0.007							60	43	21	46
Si7942DP	DUAL N	PowerPAK SO-8	100	20	0.049	0.06							d	5.9	16		3.5
Si7945DP	DUAL P	PowerPAK SO-8	- 30	20	0.02		0.031							10.9	49		3.5
Si7946DP	DUAL N	PowerPAK SO-8	150	20	0.15	0.168							d	3.3	12.6		3.5
Si7949DP	DUAL P	PowerPAK SO-8	- 60	20	0.064		0.08							5	26		3.5
Si7956DP	DUAL N	PowerPAK SO-8	150	20	0.105		0.115						d	4.1	17		3.5
Si7960DP	DUAL N	PowerPAK SO-8	60	20	0.021		0.025							9.7	49		3.5
Si7980DP	DUAL PLUS INTEGRATED SCHOTTKY N	PowerPAK SO-8	20	16	0.022		0.025							8	17.5	8	19.8
			20	16	0.015		0.019								8	22.5	10.3
Si7994DP	DUAL N	PowerPAK SO-8	30	20	0.0056		0.007							60	52	24	46
Si7998DP	DUAL N	PowerPAK SO-8	30	20	0.0093		0.0124							25	17	8.2	22
			30	20	0.0053		0.007								30	32	15.3
Si8401DB	SINGLE P	MICRO FOOT 1.6 x 1.6	- 20	12			0.065		0.095					4.9		11	2.77

Notes:

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| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |

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Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
Si8402DB	SINGLE N	MICRO FOOT 1.6 x 1.6	20	8			0.037		0.039	0.043				7.3		17	2.77
Si8407DB	SINGLE P	MICRO FOOT 2.4 x 1.6	- 20	8			0.027		0.032	0.045				8.2		32	2.9
Si8409DB	SINGLE P	MICRO FOOT 1.6 x 1.6	- 30	12			0.046		0.065					6.3		17	2.77
Si8413DB	SINGLE P	MICRO FOOT 1.6 x 1.6	- 20	12			0.048		0.063					6.5		14	2.77
Si8415DB	SINGLE P	MICRO FOOT 1.6 x 1.6	- 12	8			0.037		0.046	0.06				7.3		19	2.77
Si8424DB	SINGLE N	MICRO FOOT 1.6 x 1.6	8	5			0.031		0.033	0.035	0.043	0.077		12.2		20	6.25
Si8429DB	SINGLE P	MICRO FOOT 1.6 x 1.6	- 8	5			0.035		0.042	0.052	0.069	0.098		11.7		21	6.25
Si8445DB	SINGLE P	MICRO FOOT 1.2 x 1	- 20	5			0.084		0.1	0.12	0.155	0.495		9.8		9.5	11.4
Si8447DB	SINGLE P	MICRO FOOT 1.5 x 1	- 20	12			0.075		0.105	0.26			u	11	15	7.5	13
Si8451DB	SINGLE P	MICRO FOOT 1.5 x 1	- 20	8			0.08		0.1	0.126	0.2			10.8		10	13
Si8461DB	SINGLE P	MICRO FOOT 1 x 1	- 20	8			0.1		0.118	0.14	0.205			3.7		9.5	1.8
Si8465DB	SINGLE P	MICRO FOOT 1 x 1	- 20	12			0.104		0.148					3.8	12	6	1.8
Si8467DB	SINGLE P	MICRO FOOT 1 x 1	- 20	12			0.073	0.125						3.7	14	6.9	1.8
Si8473EDB	SINGLE P	MICRO FOOT 1.6 x 1.6	- 20	12			0.041		0.055					7.1			2.7

Notes:

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| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
Si8475EDB	SINGLE P	MICRO FOOT 1.6 x 1.6	- 20	12			0.032		0.051					7.7			2.7
Si8499DB	SINGLE P	MICRO FOOT 1.5 x 1	- 20	12			0.032		0.046	0.12				16		14.5	13
Si8800EDB	SINGLE N	MICRO FOOT 0.8 x 0.8	20	8			0.08	0.013	0.09	0.105	0.15			2.8		3.2	0.9
Si8901EDB	COMMON DRAIN P	MICRO FOOT 2.4 x 1.6	- 20	12			0.03		0.04	0.0525			c	4.4			1.7
Si8902EDB	COMMON DRAIN N	MICRO FOOT 2.4 x 1.6	20	12			0.0225	0.024	0.0285	0.036			c, f	5			1.7
Si9407BDY	SINGLE P	SO-8	- 60	20	0.12		0.15							4.7	14.5	8	5
Si9433BDY	SINGLE P	SO-8	- 20	12			0.04	0.06					h	6.2		8.8	2.5
Si9926CDY	DUAL N	SO-8	20	12			0.018		0.022					8	22	10	3.1
Si9933CDY	DUAL P	SO-8	- 20	12			0.058		0.094					4	17	8	3.1
Si9934BDY	DUAL P	SO-8	- 12	8			0.035		0.056					6.4		13	2
Si9945BDY	DUAL N	SO-8	60	20	0.058		0.072							5.3	13	6	3.1
SiA406DJ	SINGLE N	PowerPAK SC-70	12	8			0.0198		0.0222	0.0264				4.5		13.7	19
SiA408DJ	SINGLE N	PowerPAK SC-70	30	12	0.036		0.039		0.053					4.5	16	7	17.9
SiA413DJ	SINGLE P	PowerPAK SC-70	- 12	8			0.029		0.034	0.044	0.1			12		23	19
SiA414DJ	SINGLE N	PowerPAK SC-70	8	5			0.011		0.013	0.016	0.022	0.041		12		19	19
SiA415DJ	SINGLE P	PowerPAK SC-70	- 20	12			0.035		0.051					12	31	15	19
SiA419DJ	SINGLE P	PowerPAK SC-70	- 20	5			0.03		0.039	0.051	0.066	0.113		12		17.5	19
SiA421DJ	SINGLE P	PowerPAK SC-70	- 30	20	0.035		0.056							12	19	10	19
SiA425EDJ	SINGLE P	PowerPAK SC-70	- 20	12			0.06	0.065	0.08	0.12			x	4.5			15.6
SiA426DJ	SINGLE N	PowerPAK SC-70	20	12	0.0236		0.0263		0.0361					4.5	17.5	7.9	19

Notes:

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|--|--|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |

Low-Voltage Power MOSFETs Selector Guide



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Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
SIA430DJ	SINGLE N	PowerPAK SC-70	20	20	0.0135		0.0185							12	12	5.3	19.2
SIA431DJ	SINGLE P	PowerPAK SC-70	- 20	8			0.025		0.031	0.041	0.07			12		24	19
SIA432DJ	SINGLE N	PowerPAK SC-70	30	20	0.02		0.024							12	13	5.6	19.2
SIA433EDJ	SINGLE P	PowerPAK SC-70	- 20	12			0.018		0.026	0.065				12		20	19
SIA450DJ	SINGLE N	PowerPAK SC-70	240	20	2.9		2.95		3.5					1.52	4.69	2.54	15
SIA456DJ	SINGLE N	PowerPAK SC-70	200	16			1.38		1.5	3.5				2.6	9.5	5	19
SIA517DJ	N & P PAIR N	PowerPAK SC-70	12	8			0.029		0.034	0.044	0.065			4.5		5.6	6.5
	N & P PAIR P		- 12	8			0.061		0.081	0.115	0.17			4.5		8.2	6.5
SIA519EDJ	N & P PAIR N	PowerPAK SC-70	20	12			0.04		0.065					4.5	7.7	3.7	7.8
	N & P PAIR P		- 20	12			0.09		0.137					4.5	10.5	5.3	7.8
SIA533EDJ	N & P PAIR N	PowerPAK SC-70	12	8			0.034		0.04	0.05	0.07			4.5	10	5.6	7.8
	N & P PAIR P		- 12	8			0.059		0.081	0.115	0.215			4.5	13	7.8	7.8
SIA778DJ	DUAL N	PowerPAK SC-70	12	8			0.029		0.034	0.044	0.065			4.5		5.6	6.5
			20	6			0.225		0.27	0.345	0.96			1.5		1.1	5
SIA811ADJ	SINGLE PLUS INTEGRATED SCHOTTKY P	PowerPAK SC-70	- 20	8			0.116		0.155	0.205				4.5		4.9	6.5
SIA814DJ	SINGLE PLUS INTEGRATED SCHOTTKY N	PowerPAK SC-70	30	12	0.061		0.072		0.11					4.5	7	3.2	6.5
SIA850DJ	SINGLE PLUS INTEGRATED DIODE N	PowerPAK SC-70	190	16			3.8		4.2	17				0.95	3	1.4	7
SIA906EDJ	DUAL N	PowerPAK SC-70	20	12			0.046		0.063					4.5	7.5	3.5	7.8
SIA910EDJ	DUAL N	PowerPAK SC-70	12	8			0.028		0.033	0.042				4.5		6.2	7.8
SIA911ADJ	DUAL P	PowerPAK SC-70	- 20	8			0.116		0.155	0.205				4.5		4.9	6.5
SIA913ADJ	DUAL P	PowerPAK SC-70	- 12	8			0.061		0.081	0.115				4.5		8.2	6.5

Notes:

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| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{DS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
SiA917DJ	DUAL P	PowerPAK SC-70	- 20	12			0.11		0.185					4.5	6	3	6.5
SiA921EDJ	DUAL P	PowerPAK SC-70	- 20	12			0.059		0.098					4.5	15	7.1	7.8
SiA950DJ	DUAL N	PowerPAK SC-70	190	16			3.8		4.2	17				0.95	3	1.4	7
SiA975DJ	DUAL P	PowerPAK SC-70	- 12	8			0.041		0.06	0.11				4.5		10.5	7.8
SiB406EDK	SINGLE N	PowerPAK SC-75	20	12			0.046		0.063					6	7.5	3.5	10
SiB408DK	SINGLE N	PowerPAK SC-75	30	20	0.04		0.05							7	6.2	2.9	13
SiB414DK	SINGLE N	PowerPAK SC-75	8	5			0.026		0.03	0.037	0.052	0.089		9		8.6	13
SiB415DK	SINGLE P	PowerPAK SC-75	- 30	20	0.087		0.158							9	6.7	3.5	13
SiB417EDK	SINGLE P	PowerPAK SC-75	- 8	5			0.058		0.08	0.1	0.13	0.25		9		7.3	13
SiB422EDK	SINGLE N	PowerPAK SC-75	20	8			0.03		0.041	0.057	0.082			9		6	13
SiB433EDK	SINGLE P	PowerPAK SC-75	- 20	12			0.058		0.077	0.105				9		7.6	13
SiB452DK	SINGLE N	PowerPAK SC-75	190	16			2.4		2.6	6				1.5	4.3	2.3	13
SiB455EDK	SINGLE P	PowerPAK SC-75	- 12	10			0.027		0.039	0.069	0.165			9		11.3	13
SiB457EDK	SINGLE P	PowerPAK SC-75	- 20	8			0.035		0.049	0.072	0.13			9	22	13	13
SiB488DK	SINGLE N	PowerPAK SC-75	12	8			0.02		0.024	0.029				9		7.5	13
SiB800EDK	SINGLE PLUS INTEGRATED SCHOTTKY N	PowerPAK SC-75	20	6			0.225		0.27	0.345	0.96			1.5		1.1	3.1
SiB900EDK	DUAL N	PowerPAK SC-75	20	6			0.225		0.27	0.345	0.96			1.5		1.1	3.1
SiB911DK	DUAL P	PowerPAK SC-75	- 20	8			0.295		0.42	0.56				2.6		1.6	3.1
SiB912DK	DUAL N	PowerPAK SC-75	20	8			0.216		0.268	0.375				1.5		1.2	3.1

Notes:

- a. Q_g @ V_{GS} = 15 V (vs. 10 V)
- b. Q_g @ V_{GS} = 5 V (vs. 4.5 V)
- c. R_{DS} = r_{SS}/2
- d. R_{DS(on)} @ V_{GS} = 6 V (vs. 4.5 V)
- e. R_{DS(on)} @ V_{GS} = 3 V (vs. 3.3 V)
- f. R_{DS(on)} @ V_{GS} = 3.7 V (vs. 3.3 V)
- g. R_{DS(on)} @ V_{GS} = 4.75 V (vs. 4.5 V)
- h. R_{DS(on)} @ V_{GS} = 2.7V (vs. 2.5 V or 3.3 V)
- i. Not used
- j. R_{DS(on)} @ V_{GS} = 3.1 V (vs. 3.3 V)
- k. S1 and D2 connected
- l. Not used
- m. Schottky connected to channel 1
- n. Half-bridge
- o. Not used
- p. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- q. Q_g @ V_{GS} = 6 V (vs. 4.5 V)
- r. R_{DS(on)} @ V_{GS} = 8 V (vs. 6 V)
- s. R_{DS(on)} @ V_{GS} = 15 V
- t. R_{DS(on)} @ V_{GS} = 5 V
- u. R_{DS(on)} @ V_{GS} = 1.7 V (vs. 1.8 V)
- v. R_{DS(on)} @ V_{GS} = 3.5 V (vs. 3.3 V)
- w. R_{DS(on)} @ V_{GS} = 7.5 V (vs. 6 V)
- x. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- y. Q_g @ V_{GS} = 8 V (vs. 4.5 V)

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Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)	
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V		
SIB914DK	DUAL N	PowerPAK SC-75	8	5			0.113			0.138	0.19	0.28	0.48		1.5		1.5	3.1
SIE726DF	SINGLE PLUS INTEGRATED SCHOTTKY (SkyFET) N	PolarPAK	30	20	0.0024		0.0033								60	105	50	125
SIE804DF	SINGLE N	PolarPAK	150	20	0.038	0.04								d, q	37	70	46	125
SIE818DF	SINGLE N	PolarPAK	75	20	0.0095		0.0125								60	63	33	125
SIE820DF	SINGLE N	PolarPAK	20	12			0.0035			0.0064					50	95	43	104
SIE822DF	SINGLE N	PolarPAK	20	20	0.0034		0.0055								50	52	24	104
SIE832DF	SINGLE N	PolarPAK	40	20	0.0055		0.007								50	51	25	104
SIE836DF	SINGLE N	PolarPAK	200	30	0.13										18.3	27		104
SIE848DF	SINGLE N	PolarPAK	30	20	0.0016		0.0022								60	92	43	125
SIE854DF	SINGLE N	PolarPAK	100	20	0.0142										60	50		125
SIE860DF	SINGLE N	PolarPAK	30	20	0.0021		0.0028								60	70	34	104
SIE862DF	SINGLE N	PolarPAK	30	20	0.0032		0.0041								50	48	23	104
SIE864DF	SINGLE N	PolarPAK	30	20	0.0056		0.0073								45	25	11.9	25
SIE868DF	SINGLE N	PolarPAK	40	20	0.0023		0.0029								60	95	45	125
SIE874DF	SINGLE N	PolarPAK	20	20	0.00117		0.0016								60	95	45	125
SIE876DF	SINGLE N	PolarPAK	60	20	0.0061										60	51		125
SIE878DF	SINGLE N	PolarPAK	25	20	0.0052		0.0068								45	24	11.2	25
SIE882DF	SINGLE N	PolarPAK	25	20	0.0014		0.0018								60	96	46	125
SIR158DP	SINGLE N	PowerPAK SO-8	30	20	0.0018		0.0023								60	87	41.5	83
SIR164DP	SINGLE N	PowerPAK SO-8	30	20	0.0025		0.0032								50	82	40.6	69
SIR166DP	SINGLE N	PowerPAK SO-8	30	20	0.0032		0.004								40	51	25	48
SIR168DP	SINGLE N	PowerPAK SO-8	30	20	0.0044		0.0059								40	49.5	24.5	34.7
SIR172DP	SINGLE N	PowerPAK SO-8	30	20	0.0089		0.0124								20	19.5	9.8	29.8
SIR402DP	SINGLE N	PowerPAK SO-8	30	20	0.006		0.008								50	28	12	36
SIR404DP	SINGLE N	PowerPAK SO-8	20	12	0.0016		0.00175			0.00225					60		64.5	104

Notes:

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|--|---|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)	
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V		
SiR406DP	SINGLE N	PowerPAK SO-8	25	20	0.0038		0.0048								40	33	15.8	48
SiR408DP	SINGLE N	PowerPAK SO-8	25	20	0.0063		0.008								21.5	21.5	9.3	4.8
SiR410DP	SINGLE N	PowerPAK SO-8	20	20	0.0048		0.0063								35	27	16.7	36
SiR412DP	SINGLE N	PowerPAK SO-8	25	20	0.012		0.015								20	10.7	4.9	15.6
SiR414DP	SINGLE N	PowerPAK SO-8	40	20	0.0028		0.0032								50	78	38	83
SiR416DP	SINGLE N	PowerPAK SO-8	40	20	0.0038		0.0042								50	59	28.2	69
SiR418DP	SINGLE N	PowerPAK SO-8	40	20	0.005		0.006								40	50	24	39
SiR422DP	SINGLE N	PowerPAK SO-8	40	20	0.0066		0.008								40	32	16.1	34.7
SiR424DP	SINGLE N	PowerPAK SO-8	20	20	0.0055		0.0074								30	22	9.6	41.7
SiR426DP	SINGLE N	PowerPAK SO-8	40	20	0.0105		0.0125								30	20.5	9.3	41.7
SiR436DP	SINGLE N	PowerPAK SO-8	25	20	0.0046		0.0062								40	31	13	50
SiR438DP	SINGLE N	PowerPAK SO-8	25	20	0.0018		0.0023								60	70	32.6	83
SiR440DP	SINGLE N	PowerPAK SO-8	20	20	0.00155		0.002								60	100	43.5	104
SiR460DP	SINGLE N	PowerPAK SO-8	30	20	0.0047		0.0061								40	36	16.8	48
SiR462DP	SINGLE N	PowerPAK SO-8	30	20	0.0079		0.01								30	20	8.8	41.7
SiR466DP	SINGLE N	PowerPAK SO-8	30	20	0.0035		0.0051								40	42.5	21.5	54
SiR468DP	SINGLE N	PowerPAK SO-8	30	20	0.0057		0.0076								40	29	13.8	50
SiR470DP	SINGLE N	PowerPAK SO-8	40	20	0.0023		0.00265								60	102	45.5	104
SiR472DP	SINGLE N	PowerPAK SO-8	30	20	0.012		0.015							b	20	15	6.8	29.8

Notes:

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| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |

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Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)	
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V		
SIR484DP	SINGLE N	PowerPAK SO-8	20	20	0.0083		0.0115								20	15	7.1	29.8
SIR492DP	SINGLE N	PowerPAK SO-8	12	8			0.0038		0.0047						40		41	36
SIR494DP	SINGLE N	PowerPAK SO-8	12	20	0.0012		0.0017								60	98	50	104
SIR800DP	SINGLE N	PowerPAK SO-8	20	12	0.0023		0.0026		0.0034						50	89	41	69
SIR802DP	SINGLE N	PowerPAK SO-8	20	12	0.005		0.0057		0.0076						30	32	15.5	27.7
SIR804DP	SINGLE N	PowerPAK SO-8	100	20	0.0072		0.0103								60	50.8	24.8	104
SIR836DP	SINGLE N	PowerPAK SO-8	40	20	0.019		0.0225								21	11.8	5.8	15.6
SIR838DP	SINGLE N	PowerPAK SO-8	150	20	0.033										35	33		96
SIR844DP	SINGLE N	PowerPAK SO-8	25	20	0.0028		0.0038								50	60	29.5	50
SIR850DP	SINGLE N	PowerPAK SO-8	25	20	0.007		0.009								30	19	8.4	41.7
SIR862DP	SINGLE N	PowerPAK SO-8	25	20	0.0028		0.0035								50	60	28.4	69
SIR866DP	SINGLE N	PowerPAK SO-8	20	20	0.0019		0.00255								60	71	35.3	83
SIR876DP	SINGLE N	PowerPAK SO-8	100	20	0.0108	0.0114	0.0145							w	40	31.8	16.9	62.5
SIR878DP	SINGLE N	PowerPAK SO-8	100	20	0.014	0.0148	0.019							w	40	28.3	13.6	44.5
SIR880DP	SINGLE N	PowerPAK SO-8	80	20	0.0059	0.0067	0.0085							w	60	49	23	104
SIR882DP	SINGLE N	PowerPAK SO-8	100	20	0.0087	0.0094	0.0115							w	60	38.5	18.3	83
SIR890DP	SINGLE N	PowerPAK SO-8	20	20	0.0029		0.004								50	42	20	50
SIR892DP	SINGLE N	PowerPAK SO-8	25	20	0.0032		0.0042								50	40	20	50
SIS402DN	SINGLE N	PowerPAK 1212-8	30	20	0.006		0.008								50	28	12	5.2

Notes:

- a. Q_g @ V_{GS} = 15 V (vs. 10 V)
- b. Q_g @ V_{GS} = 5 V (vs. 4.5 V)
- c. R_{DS} = r_{SS}/2
- d. R_{DS(on)} @ V_{GS} = 6 V (vs. 4.5 V)
- e. R_{DS(on)} @ V_{GS} = 3 V (vs. 3.3 V)
- f. R_{DS(on)} @ V_{GS} = 3.7 V (vs. 3.3 V)
- g. R_{DS(on)} @ V_{GS} = 4.75 V (vs. 4.5 V)
- h. R_{DS(on)} @ V_{GS} = 2.7 V (vs. 2.5 V or 3.3 V)
- i. Not used
- j. R_{DS(on)} @ V_{GS} = 3.1 V (vs. 3.3 V)
- k. S1 and D2 connected
- l. Not used
- m. Schottky connected to channel 1
- n. Half-bridge
- o. Not used
- p. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- q. Q_g @ V_{GS} = 6 V (vs. 4.5 V)
- r. R_{DS(on)} @ V_{GS} = 8 V (vs. 6 V)
- s. R_{DS(on)} @ V_{GS} = 15 V
- t. R_{DS(on)} @ V_{GS} = 5 V
- u. R_{DS(on)} @ V_{GS} = 1.7 V (vs. 1.8 V)
- v. R_{DS(on)} @ V_{GS} = 3.5 V (vs. 3.3 V)
- w. R_{DS(on)} @ V_{GS} = 7.5 V (vs. 6 V)
- x. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- y. Q_g @ V_{GS} = 8 V (vs. 4.5 V)



Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
SiS406DN	SINGLE N	PowerPAK 1212-8	30	25	0.011		0.0145							14	18.2	8.4	3.7
SiS407DN	SINGLE P	PowerPAK 1212-8	- 20	8			0.0102		0.0138	0.0195				25		38	33
SiS410DN	SINGLE N	PowerPAK 1212-8	20	20	0.0048		0.0063							35	27	16.7	5.2
SiS412DN	SINGLE N	PowerPAK 1212-8	30	20	0.024		0.03							12	8	3.8	15.6
SiS414DN	SINGLE N	PowerPAK 1212-8	30	12			0.016		0.02					20	22	8.2	31
SiS424DN	SINGLE N	PowerPAK 1212-8	20	20	0.0064		0.0089							35	20	9.5	39
SiS430DN	SINGLE N	PowerPAK 1212-8	25	20	0.0051		0.0069							35	26.5	13	52
SiS434DN	SINGLE N	PowerPAK 1212-8	40	20	0.0076		0.0092							35	25	12.5	52
SiS436DN	SINGLE N	PowerPAK 1212-8	25	20	0.0105		0.013							16	14.3	6.7	27.7
SiS438DN	SINGLE N	PowerPAK 1212-8	20	20	0.0095		0.0125							16	15	7.3	27.7
SiS452DN	SINGLE N	PowerPAK 1212-8	12	20	0.00325		0.0048							35	27	13.5	52
SiS454DN	SINGLE N	PowerPAK 1212-8	20	20	0.0037		0.0054							35	35	18.5	52
SiS456DN	SINGLE N	PowerPAK 1212-8	30	20	0.0051		0.0068							35	36	18.5	52
SiS892DN	SINGLE N	PowerPAK 1212-8	100	20	0.029		0.042							30	14.2	6.7	52
SiS902DN	DUAL N	PowerPAK 1212-8	75	20	0.186		0.228							4	3.9	2.1	15.4
SiZ700DT	DUAL N	PowerPAIR 6 x 3.7	20	16	0.0086		0.0108							16	20	9.5	2.36
			20	16	0.0058		0.0066								16	55	27
SiZ702DT	DUAL N	PowerPAIR 6 x 3.7	30	20	0.012		0.0145							16	14	6.8	27
			30	20	0.012		0.0145								16	14	6.8
SUD06N10-225L	SINGLE N	DPAK (TO-252)	100	20	0.2		0.225							6.5		2.7	20
SUD08P06-155L	SINGLE P	DPAK (TO-252)	- 60	20	0.155		0.28							8.4	12.5		25

Notes:

- a. Q_g @ V_{GS} = 15 V (vs. 10 V)
- b. Q_g @ V_{GS} = 5 V (vs. 4.5 V)
- c. R_{DS} = r_{SS}/2
- d. R_{DS(on)} @ V_{GS} = 6 V (vs. 4.5 V)
- e. R_{DS(on)} @ V_{GS} = 3 V (vs. 3.3 V)
- f. R_{DS(on)} @ V_{GS} = 3.7 V (vs. 3.3 V)
- g. R_{DS(on)} @ V_{GS} = 4.75 V (vs. 4.5 V)
- h. R_{DS(on)} @ V_{GS} = 2.7V (vs. 2.5 V or 3.3 V)
- i. Not used
- j. R_{DS(on)} @ V_{GS} = 3.1 V (vs. 3.3 V)
- k. S1 and D2 connected
- l. Not used
- m. Schottky connected to channel 1
- n. Half-bridge
- o. Not used
- p. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- q. Q_g @ V_{GS} = 6 V (vs. 4.5 V)
- r. R_{DS(on)} @ V_{GS} = 8 V (vs. 6 V)
- s. R_{DS(on)} @ V_{GS} = 15 V
- t. R_{DS(on)} @ V_{GS} = 5 V
- u. R_{DS(on)} @ V_{GS} = 1.7 V (vs. 1.8 V)
- v. R_{DS(on)} @ V_{GS} = 3.5 V (vs. 3.3 V)
- w. R_{DS(on)} @ V_{GS} = 7.5 V (vs. 6 V)
- x. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- y. Q_g @ V_{GS} = 8 V (vs. 4.5 V)

Low-Voltage Power MOSFETs Selector Guide



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Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)	
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V		
SUD09P10-195	SINGLE P	DPAK (TO-252)	- 100	20	0.195		0.21								8.8	23.2	11.7	32.1
SUD15N15-95	SINGLE N	DPAK (TO-252)	150	20	0.095	0.1								d	15	20		62
SUD17N25-165	SINGLE N	DPAK (TO-252)	250	20	0.165										17	30		136
SUD19N20-90	SINGLE N	DPAK (TO-252)	200	20	0.09	0.105								d	19	34		136
SUD19P06-60	SINGLE P	DPAK (TO-252)	- 60	20	0.06		0.077								18.3	26		38.5
SUD23N06-31	SINGLE N	DPAK (TO-252)	60	20	0.031		0.045								21.4	11	6.5	31.25
SUD25N15-52	SINGLE N	DPAK (TO-252)	150	20	0.052	0.06								d	25	33		136
SUD35N10-26P	SINGLE N	DPAK (TO-252)	100	20	0.026										35	31		83
SUD40N08-16	SINGLE N	DPAK (TO-252)	80	20	0.016										40	42		136
SUD45P03-09	SINGLE P	DPAK (TO-252)	- 30	20	0.0087		0.015								45	60		41.7
SUD50N02-04P	SINGLE N	DPAK (TO-252)	20	20	0.0043		0.006								34		40	136
SUD50N02-06P	SINGLE N	DPAK (TO-252)	20	20	0.006		0.0095								50		19	65
SUD50N02-09P	SINGLE N	DPAK (TO-252)	20	20	0.0095		0.017								20		10.5	39.5
SUD50N03-06AP	SINGLE N	DPAK (TO-252)	30	20	0.0057		0.0078								90	62	30	83
SUD50N03-12P	SINGLE N	DPAK (TO-252)	30	20	0.012		0.0175								47		13	46.8
SUD50N04-8m8P	SINGLE N	DPAK (TO-252)	40	20	0.0088		0.0105								50	37	16	48.1
SUD50N06-07L	SINGLE N	DPAK (TO-252)	60	20	0.0074		0.0088								96	96		136
SUD50N10-18P	SINGLE N	DPAK (TO-252)	100	20	0.0185										50	48		136.4
SUD50N10-34P	SINGLE N	DPAK (TO-252)	100	20	0.034	0.04								d	20	24		56

Notes:

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|--|---|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)	
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V		
SUD50P04-08	SINGLE P	DPAK (TO-252)	- 40	20	0.0081		0.0117								50	106	60	73.5
SUD50P04-40P	SINGLE P	DPAK (TO-252)	- 40	20	0.04		0.05								8	38.5	17	24
SUD50P06-15	SINGLE P	DPAK (TO-252)	- 60	20	0.015		0.02								50	110		113
SUD50P08-25L	SINGLE P	DPAK (TO-252)	- 80	20	0.0252		0.029								50	105	55	136
SUD50P10-43L	SINGLE P	DPAK (TO-252)	- 100	20	0.043		0.048								37.1	106	54	136
SUM09N20-270	SINGLE N	D ² PAK (TO-263)	200	20	0.27	0.3								d	9	11		60
SUM110N03-04P	SINGLE N	D ² PAK (TO-263)	30	20	0.0042		0.0065								110		40	120
SUM110N04-05H	SINGLE N	D ² PAK (TO-263)	40	20	0.0053										110	95		150
SUM110N04-2m1P	SINGLE N	D ² PAK (TO-263)	40	20	0.0021		0.0024								110	240		312
SUM110N06-3m4L	SINGLE N	D ² PAK (TO-263)	60	20	0.0034		0.0041								110	200		375
SUM110N08-07P	SINGLE N	D ² PAK (TO-263)	75	20	0.007										110	69		208.3
SUM110P04-05	SINGLE P	D ² PAK (TO-263)	- 40	20	0.005										110	185		375
SUM110P06-08L	SINGLE P	D ² PAK (TO-263)	- 60	20	0.008		0.0105								110	160		272
SUM110P08-11L	SINGLE P	D ² PAK (TO-263)	- 80	20	0.0112		0.0145								110	180	85	375
SUM18N25-165	SINGLE N	D ² PAK (TO-263)	250	20	0.165										18	30		150
SUM23N15-73	SINGLE N	D ² PAK (TO-263)	150	20	0.073	0.077								d	23	22		100
SUM27N20-78	SINGLE N	D ² PAK (TO-263)	200	20	0.078	0.083								d	27	40		150
SUM40N02-12P	SINGLE N	D ² PAK (TO-263)	20	20	0.012		0.026								40		7.5	83
SUM40N10-30	SINGLE N	D ² PAK (TO-263)	100	20	0.03	0.034								d	40	35		107

Notes:

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|--|--|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |

Low-Voltage Power MOSFETs Selector Guide



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Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
SUM40N15-38	SINGLE N	D ² PAK (TO-263)	150	20	0.038	0.042							d	40	38		166
SUM45N25-58	SINGLE N	D ² PAK (TO-263)	250	30	0.058	0.062							d	45	95		375
SUM55P06-19L	SINGLE P	D ² PAK (TO-263)	- 60	20	0.019		0.025							55	76		125
SUM60N02-3m9P	SINGLE N	D ² PAK (TO-263)	20	20	0.0039		0.0052							60		33	120
SUM60N10-17	SINGLE N	D ² PAK (TO-263)	100	20	0.0165	0.019							d	60	65		150
SUM65N20-3Q	SINGLE N	D ² PAK (TO-263)	200	20	0.03									65	90		375
SUM70N04-07L	SINGLE N	D ² PAK (TO-263)	40	20	0.0074		0.011							70	50		107
SUM75N06-09L	SINGLE N	D ² PAK (TO-263)	60	20	0.0093		0.0135							75	47		125
SUM75N15-18P	SINGLE N	D ² PAK (TO-263)	150	20	0.018									75	64		312.5
SUM85N03-06P	SINGLE N	D ² PAK (TO-263)	30	20	0.006		0.009							85	48		100
SUM90N03-2m2P	SINGLE N	D ² PAK (TO-263)	30	20	0.0022		0.0027							90	171	81.5	250
SUM90N06-4m4P	SINGLE N	D ² PAK (TO-263)	60	20	0.0044									90	105		300
SUM90N06-5m5P	SINGLE N	D ² PAK (TO-263)	60	20	0.0055									90	78.5		272
SUM90N08-4m8P	SINGLE N	D ² PAK (TO-263)	75	20	0.0048	0.0085							d	90	105		300
SUM90N08-6m2P	SINGLE N	D ² PAK (TO-263)	75	20	0.0062									90	75		272
SUM90N10-8m2P	SINGLE N	D ² PAK (TO-263)	100	20	0.0082									90	97		300
SUM90P10-19L	SINGLE P	D ² PAK (TO-263)	- 100	20	0.019		0.021							90	217	97	375
SUP28N15-52	SINGLE N	TO-220	150	20	0.052	0.06							d	28	33		120
SUP36N20-54P	SINGLE N	TO-220	200	25	0.054								s	36	57		166

Notes:

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|--|---|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
SUP40N10-30	SINGLE N	TO-220	100	20	0.03	0.034							d	40	35		107
SUP40N25-60	SINGLE N	TO-220	250	30	0.06	0.064							d	40	95		300
SUP40P10-43	SINGLE P	TO-220	-100	20	0.043		0.048							36	106	54	125
SUP50N03-5m1P	SINGLE N	TO-220	30	20	0.0051		0.0063							50	44	21.7	59.5
SUP53P06-20	SINGLE P	TO-220	-60	20	0.0195		0.025							53	76	38	104.2
SUP57N20-33	SINGLE N	TO-220	200	20	0.033									57	90		300
SUP60N06-12P	SINGLE N	TO-220	60	20	0.012									60	33		100
SUP60N10-18P	SINGLE N	TO-220	100	20	0.0183	0.023							r	60	48		150
SUP75P03-07	SINGLE P	TO-220	-30	20	0.007		0.01							75	160		187
SUP85N03-3m6P	SINGLE N	TO-220	30	20	0.0036		0.0044							85	67		78.1
SUP85N10-10P	SINGLE N	TO-220	100	20	0.01									85	77		227
SUP90N03-03	SINGLE N	TO-220	30	20	0.0029		0.0033							90	171	81.5	187
SUP90N04-3m3P	SINGLE N	TO-220	40	20	0.0033		0.0041							90	87		125
SUP90N06-5m0P	SINGLE N	TO-220	60	20	0.005									90	105		300
SUP90N06-6m0P	SINGLE N	TO-220	60	20	0.006									90	78.5		272
SUP90N08-4m8P	SINGLE N	TO-220	75	20	0.0048	0.0085							d	90	105		300
SUP90N08-6m8P	SINGLE N	TO-220	75	20	0.0068									90	75		272
SUP90N08-7m7P	SINGLE N	TO-220	75	20	0.0077									90	69		208.3
SUP90N08-8m2P	SINGLE N	TO-220	75	20	0.0082									90	58		150

Notes:

- a. Q_g @ V_{GS} = 15 V (vs. 10 V)
- b. Q_g @ V_{GS} = 5 V (vs. 4.5 V)
- c. R_{DS} = r_{SS}/2
- d. R_{DS(on)} @ V_{GS} = 6 V (vs. 4.5 V)
- e. R_{DS(on)} @ V_{GS} = 3 V (vs. 3.3 V)
- f. R_{DS(on)} @ V_{GS} = 3.7 V (vs. 3.3 V)
- g. R_{DS(on)} @ V_{GS} = 4.75 V (vs. 4.5 V)
- h. R_{DS(on)} @ V_{GS} = 2.7V (vs. 2.5 V or 3.3 V)
- i. Not used
- j. R_{DS(on)} @ V_{GS} = 3.1 V (vs. 3.3 V)
- k. S1 and D2 connected
- l. Not used
- m. Schottky connected to channel 1
- n. Half-bridge
- o. Not used
- p. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- q. Q_g @ V_{GS} = 6 V (vs. 4.5 V)
- r. R_{DS(on)} @ V_{GS} = 8 V (vs. 6 V)
- s. R_{DS(on)} @ V_{GS} = 15 V
- t. R_{DS(on)} @ V_{GS} = 5 V
- u. R_{DS(on)} @ V_{GS} = 1.7 V (vs. 1.8 V)
- v. R_{DS(on)} @ V_{GS} = 3.5 V (vs. 3.3 V)
- w. R_{DS(on)} @ V_{GS} = 7.5 V (vs. 6 V)
- x. R_{DS(on)} @ V_{GS} = 3.6 V (vs. 3.3 V)
- y. Q_g @ V_{GS} = 8 V (vs. 4.5 V)

Low-Voltage Power MOSFETs Selector Guide



Vishay Siliconix

Alphanumeric Index, continued

Part Number	Configuration	Package	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} Ω								Footnote	I _D (A)	Q _g (nC)		P _D (W)
					V _{GS} = 10 V	V _{GS} = 6 V	V _{GS} = 4.5 V	V _{GS} = 3.3 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V			V _{GS} = 10 V	V _{GS} = 4.5 V	
SUP90N10-8m8P	SINGLE N	T0-220	100	20	0.0088									90	97		300
SUP90N15-18P	SINGLE N	T0-220	150	20	0.018									90	64		375
SUP90P06-09L	SINGLE P	T0-220	- 60	20	0.0093		0.0118							90	160		250
INQ200K	SINGLE N	SOT-23	20	8			0.4		0.5					0.73		1.4	0.35
INQ201K	SINGLE N	SOT-23	20	20	1		1.4							0.42	1		0.35
IN2404K	SINGLE N	SOT-23	240	20	4		4		6					0.2	4.87		0.36
TP0101K	SINGLE P	SOT-23	- 20	8			0.65		0.85					0.58		1.4	0.35
TP0202K	SINGLE P	SOT-23	- 30	20	1.4		3.5							0.385	1		0.35
TP0610K	SINGLE P	SOT-23	- 60	20	5		10							0.4	1.2		0.25

Notes:

- | | | | |
|--|---|--|--|
| a. Q _g @ V _{GS} = 15 V (vs. 10 V) | g. R _{DS(on)} @ V _{GS} = 4.75 V (vs. 4.5 V) | n. Half-bridge | u. R _{DS(on)} @ V _{GS} = 1.7 V (vs. 1.8 V) |
| b. Q _g @ V _{GS} = 5 V (vs. 4.5 V) | h. R _{DS(on)} @ V _{GS} = 2.7 V (vs. 2.5 V or 3.3 V) | o. Not used | v. R _{DS(on)} @ V _{GS} = 3.5 V (vs. 3.3 V) |
| c. R _{DS} = r _{SS} /2 | i. Not used | p. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) | w. R _{DS(on)} @ V _{GS} = 7.5 V (vs. 6 V) |
| d. R _{DS(on)} @ V _{GS} = 6 V (vs. 4.5 V) | j. R _{DS(on)} @ V _{GS} = 3.1 V (vs. 3.3 V) | q. Q _g @ V _{GS} = 6 V (vs. 4.5 V) | x. R _{DS(on)} @ V _{GS} = 3.6 V (vs. 3.3 V) |
| e. R _{DS(on)} @ V _{GS} = 3 V (vs. 3.3 V) | k. S1 and D2 connected | r. R _{DS(on)} @ V _{GS} = 8 V (vs. 6 V) | y. Q _g @ V _{GS} = 8 V (vs. 4.5 V) |
| f. R _{DS(on)} @ V _{GS} = 3.7 V (vs. 3.3 V) | l. Not used | s. R _{DS(on)} @ V _{GS} = 15 V | |
| | m. Schottky connected to channel 1 | t. R _{DS(on)} @ V _{GS} = 5 V | |



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