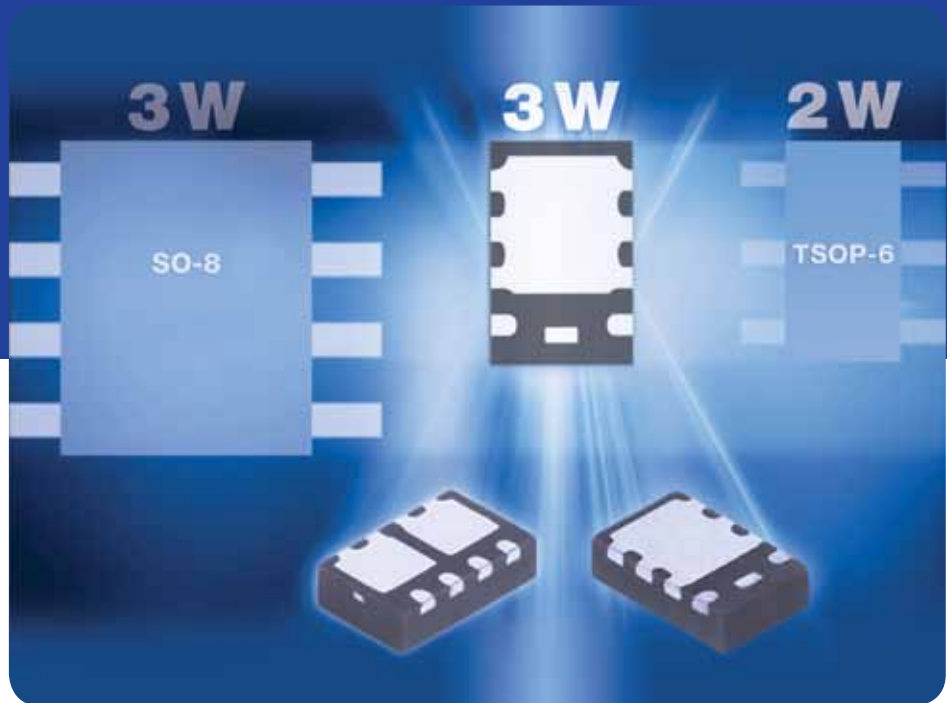




POWER MOSFETs

PowerPAK® ChipFET®



3 W Maximum Power Dissipation in Compact 3 mm x 1.8 mm Footprint Area:

Replace TSOP-6 and SO-8 MOSFETs for Lower Thermal Resistance and Smaller Footprints

KEY BENEFITS

- Advanced thermal performance in a compact 3 mm by 1.8 mm footprint
- 3 W maximum power dissipation for high thermal efficiency
- Available in single, dual, co-packaged n- and p-channel, and MOSFET plus Schottky versions
- Breakdown voltage ratings from 20 V to 30 V for p-channel and 20 V to 60 V for n-channel

APPLICATIONS

N-Channel

- Point-of-load, synchronous rectification and logic-level DC/DC applications for low-power computer and fixed telecom systems
- Load switches in portable electronic systems and notebook PCs

P-Channel

- Load, charger, and battery switching in portable systems

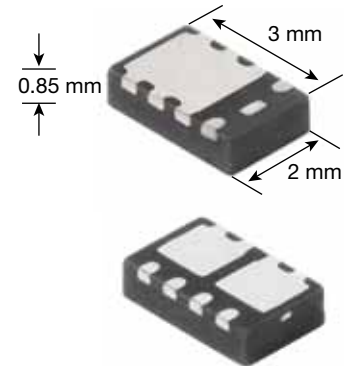
P-Channel plus Schottky

- Charger switch
- Asynchronous DC/DC in applications such as hard disk drives and game consoles

Datasheet is available on our web site at www.vishay.com
<http://www.vishay.com/mosfets/powerpack-chipfet-package>

PowerPAK ChipFET

	SO-8	PowerPAK ChipFET	TSOP-6
Max Length (mm)	5	3	3
Max Width (mm)	6	2	3
Max Footprint Area (mm ²)	31	6	9
Maximum Height (mm)	1.75	0.85	1.1
Maximum Power Dissipation (W)	3	3	2



Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(ON)} (Ω)				Q _g (nC)		Samples
			V _{GS} = 10 V	V _{GS} = 4.5 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 10 V	V _{GS} = 4.5 V	
Single N-Channel									
Si5456DU	20	20	0.01	0.0135			20	9.8	Available
Si5486DU	20	8		0.015	0.017	0.021		21	Available
Si5418DU	30	20	0.0145	0.0185			20	9.5	Available
Si5458DU	30	20	0.041	0.051			6	2.8	Available
Si5410DU	40	20	0.018	0.021			21	10	Available
Si5476DU	60	20	0.034	0.041			21	10.5	Available
Single P-Channel									
Si5459DU	- 20	12		0.052	0.082		17	8	Available
Si5419DU	- 30	20	0.02	0.033			30	15.5	Available
Dual N-Channel									
Si5906DU	30	20	0.031	0.04			5.7	2.9	Available
Si5944DU	40	20	0.112	0.171			4.4	2.2	Available
Si5980DU	100	20	0.567				2.2		Available
Dual P-Channel									
Si5999EDU*	- 20	12		0.057	0.093			7	Available
Si5947DU	- 20	12		0.058	0.1		11	5.5	Available
N & P Pair									
Si5517DU	20	8		0.039	0.045	0.055		6	Available
	- 20	8		0.072	0.100	0.131		5	Available

* Target specification

For the latest list of devices visit <http://www.vishay.com/mosfets/powerpack-chipfet-package/>

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