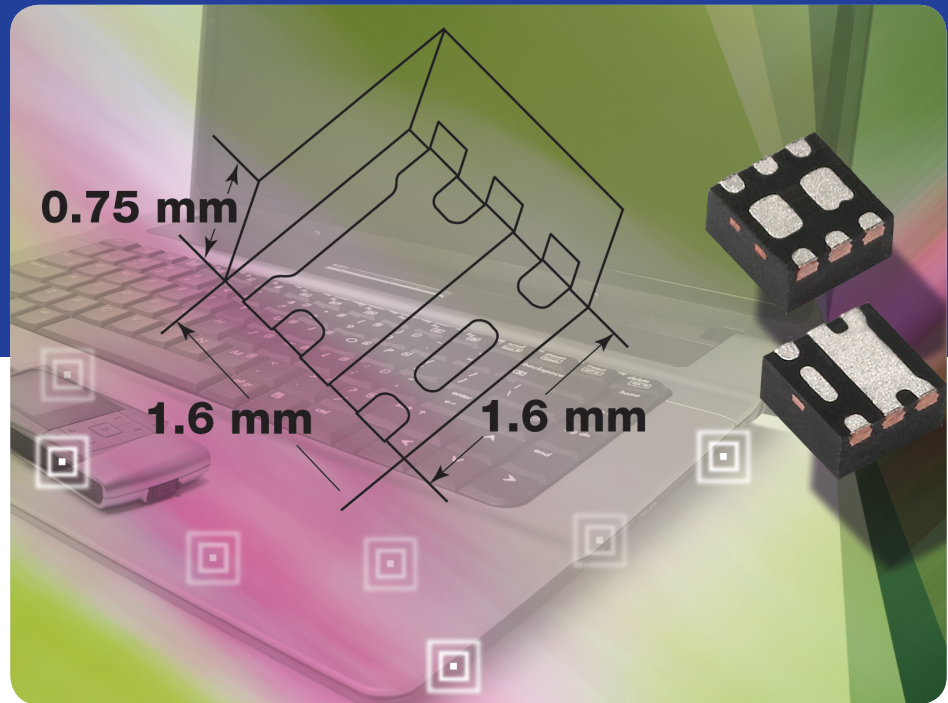




POWER MOSFETs

PowerPAK® SC-75



Ultra-Low On-Resistance, and Ultra-Small Size

FEATURES

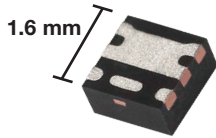
- PowerPAK SC-75 provides same 1.6-mm x 1.6-mm footprint as standard SC-75, but with much lower on-resistance
 - N-channel $R_{DS(on)}$ as low as 0.020 Ω
 - P-channel $R_{DS(on)}$ as low as 0.027 Ω
- Single and dual n- and p-channel versions available, including devices with on-resistance ratings down to 1.2 V
- Gives designers ultra-low on-resistance and ultra-small size in one device for saving power in space-constrained handheld applications
- 100 % lead (Pb)-free, halogen-free, and RoHS-compliant, meeting the demands of international legislation for elimination of hazardous substances

APPLICATIONS

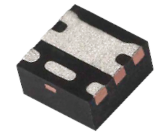
- Load switching in notebook and netbook computers as well as portable devices such as cellular phones, PDAs, digital cameras, MP3 players, and smart phones



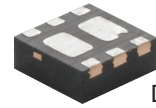
PowerPAK® SC-75



	PowerPAK SC-70
Maximum Length (mm)	1.7
Maximum Width (mm)	1.7
Maximum Footprint Area (mm ²)	2.89
Maximum Height (mm)	0.8



Single



Dual

EXAMPLE DEVICES

Part Number	V _{DS} (V)	V _{GS} (V)	R _{DS(ON)} (Ω)						Samples
			V _{GS} = 10 V	V _{GS} = 4.5 V	V _{GS} = 2.5 V	V _{GS} = 1.8 V	V _{GS} = 1.5 V	V _{GS} = 1.2 V	
Single N-Channel									
SiB414DK	8	5		0.026	0.03	0.037	0.052	0.089	Available
SiB488DK	12	8		0.02	0.024	0.029			Available
SiB422EDK	20	8		0.03	0.041	0.057	0.082		Available
SiB406EDK	20	12		0.046	0.063				Available
SiB408DK	30	20	0.04	0.05					Available
SiB452DK	190	16		2.4	2.6	6			Available
Single P-Channel									
SiB417EDK	-8	5		0.058	0.08	0.1	0.13	0.25	Available
SiB455EDK	-12	10		0.027	0.039	0.069	0.165		Available
SiB457EDK	-20	8		0.035	0.049	0.072	0.13		Available
SiB433EDK	-20	8		0.058	0.077	0.105			Available
SiB415DK	-30	20	0.087	0.158					Available
Single N-Channel Plus Integrated Schottky									
SiB800EDK	20	6		0.225	0.27	0.345	0.96		Available
Dual N-Channel									
SiB914DK	8	5		0.113	0.138	0.19	0.28	0.48	Available
SiB912DK	20	8		0.216	0.268	0.375			Available
SiB900EDK	20	6		0.225	0.27	0.345	0.96		Available
Dual P-Channel									
SiB911DK	-20	8		0.295	0.42	0.56			Available

For the latest list of devices visit <http://www.vishay.com/mosfets/powerpak-sc-75-package/>

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Build Vishay into your Design