

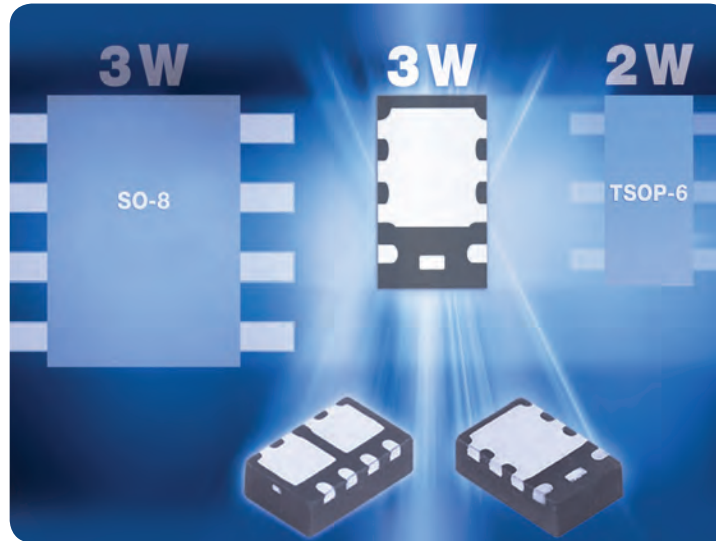


# POWER MOSFETs

## PowerPAK® ChipFET®



### 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

#### RESOURCES:

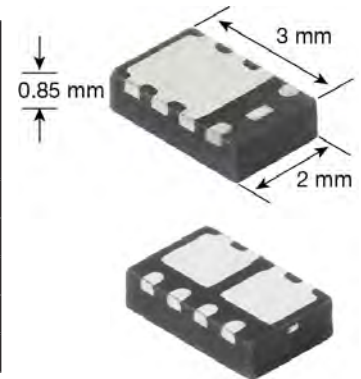
- Datasheets: <http://www.vishay.com/mosfets/powerpack-chipfet-package/>
- For technical questions contact: [pmostechsupport@vishay.com](mailto:pmostechsupport@vishay.com)
- More featured products: <http://www.vishay.com/landingpage/tradeshows/powermanagement/2011/mosfets.html>

MOSFETs – 3 W Maximum  $P_D$  in Compact 3 mm x 1.8 mm Outline



### PowerPAK ChipFET

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



Part Number	V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	R <sub>DS(ON)</sub> (Ω)				Q <sub>g</sub> (nC)		Samples
			V <sub>GS</sub> = 10 V	V <sub>GS</sub> = 4.5 V	V <sub>GS</sub> = 2.5 V	V <sub>GS</sub> = 1.8 V	V <sub>GS</sub> = 10 V	V <sub>GS</sub> = 4.5 V	
<b>SINGLE N-CHANNEL</b>									
<a href="#">Si5456DU</a>	20	20	0.01	0.0135			20	9.8	Available
<a href="#">Si5486DU</a>	20	8		0.015	0.017	0.021		21	Available
<a href="#">Si5418DU</a>	30	20	0.0145	0.0185			20	9.5	Available
<a href="#">Si5458DU</a>	30	20	0.041	0.051			6	2.8	Available
<a href="#">Si5410DU</a>	40	20	0.018	0.021			21	10	Available
<a href="#">Si5476DU</a>	60	20	0.034	0.041			21	10.5	Available
<b>SINGLE P-CHANNEL</b>									
<a href="#">Si5459DU</a>	- 20	12		0.052	0.082		17	8	Available
<a href="#">Si5419DU</a>	- 30	20	0.02	0.033			30	15.5	Available
<b>DUAL N-CHANNEL</b>									
<a href="#">Si5906DU</a>	30	20	0.031	0.04			5.7	2.9	Available
<a href="#">Si5944DU</a>	40	20	0.112	0.171			4.4	2.2	Available
<a href="#">Si5980DU</a>	100	20	0.567				2.2		Available
<b>DUAL P-CHANNEL</b>									
<a href="#">Si5999EDU</a>	-20	12		0.059	0.096		13.2	6.9	Available
<a href="#">Si5997DU</a>	-30	20	0.054	0.088			9.5	4.8	Available
<b>N &amp; P PAIR</b>									
<a href="#">Si5517DU</a>	20	8		0.039	0.045	0.055		6	Available
	- 20	8		0.072	0.100	0.131		5	Available

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

 MOSFETs - 3 W Maximum P<sub>D</sub> in Compact 3 mm x 1.8 mm Outline