



Silicon Carbide (SiC) Schottky Diodes

in D²PAK 2L (TO-263AB 2L), TO-220AC 2L, and TO-247AD Packages

Advanced merged PIN Schottky (MPS) structure

Excellent surge capability and low voltage drop at high current peaks

Low positive forward voltage temperature coefficient for high efficiency and easy paralleling

Low junction capacitance for low switching losses in active devices

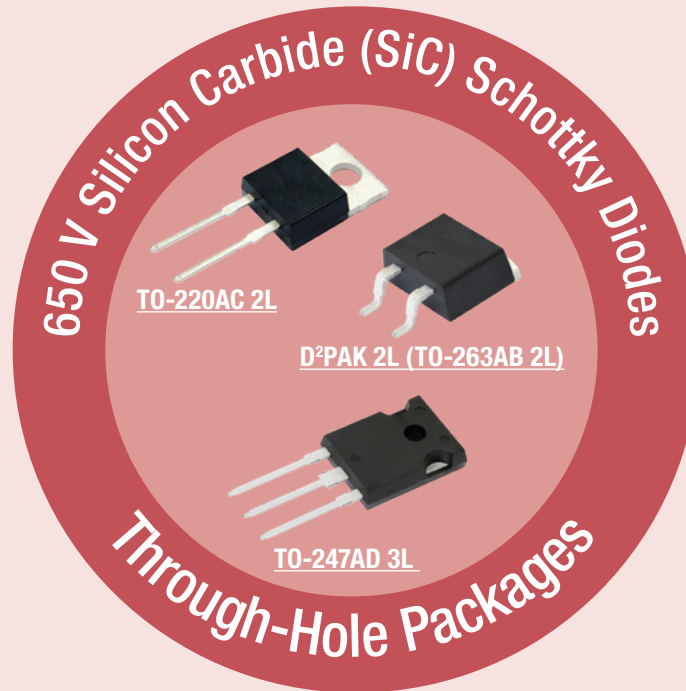
Low and stable leakage with temperature



Current ratings from 4 A to 40 A



Breakdown voltage of 650 V



APPLICATIONS

PFC and high frequency rectification in high voltage power supplies and LLC converters for servers, telecom equipment, UPS, and solar inverters



SERVERS



UPS



TELECOM



SOLAR INVERTERS

Vishay SiC Portfolio

Part Number	I	I _{FSM} (A)	V _{RRM} (V)	V _F at I _F (V) ¹	T _J Max. (°C)	Q _C (nC)	Circuit Configuration	Package (JEDEC®) Code	Part Number	I	I _{FSM} (A)	V _{RRM} (V)	V _F at I _F (V) ¹	T _J Max. (°C)	Q _C (nC)	Circuit Configuration	Package (JEDEC®) Code	
VS-3C04ET07S2L-M3	4	29	650	1.3	175	12	Single	D ² PAK 2L (TO-263AB 2L)	VS-3C08ET07T-M3	8	54	650	1.3	175	22	Single	TO-220AC 2L	
VS-3C06ET07S2L-M3	6	42	650		175	17	Single	D ² PAK 2L (TO-263AB 2L)	VS-3C10ET07T-M3	10	60	650		175	29	Single	TO-220AC 2L	
VS-3C08ET07S2L-M3	8	54	650		175	22	Single	D ² PAK 2L (TO-263AB 2L)	VS-3C12ET07T-M3	12	83	650		175	34	Single	TO-220AC 2L	
VS-3C10ET07S2L-M3	10	60	650		175	29	Single	D ² PAK 2L (TO-263AB 2L)	VS-3C16ET07T-M3	16	104	650		175	44	Single	TO-220AC 2L	
VS-3C12ET07S2L-M3	12	83	650		175	34	Single	D ² PAK 2L (TO-263AB 2L)	VS-3C20ET07T-M3	20	110	650		175	53	Single	TO-220AC 2L	
VS-3C16ET07S2L-M3	16	104	650		175	44	Single	D ² PAK 2L (TO-263AB 2L)	VS-3C16CP07L-M3	2 x 8	54	650		175	22	Common cathode	TO-247AD 3L	
VS-3C20ET07S2L-M3	20	110	650		175	53	Single	D ² PAK2L (TO-263AB 2L)	VS-3C20CP07L-M3	2 x 10	60	650		175	29	Common cathode	TO-247AD 3L	
VS-3C04ET07T-M3	4	29	650		175	12	Single	TO-220AC 2L	VS-3C40CP07L-M3	2 x 20	110	650		175	53	Common cathode	TO-247AD 3L	
VS-3C06ET07T-M3	6	42	650		175	17	Single	TO-220AC 2L										

Note: ⁽¹⁾ V_F at I_F at 25 °C

For technical questions: DiodesAmericas@vishay.com, DiodesEurope@vishay.com, or DiodesAsia@vishay.com