



Silicon Carbide (SiC) Schottky Diodes in 2L TO-220AC and TO-247AD 3L 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

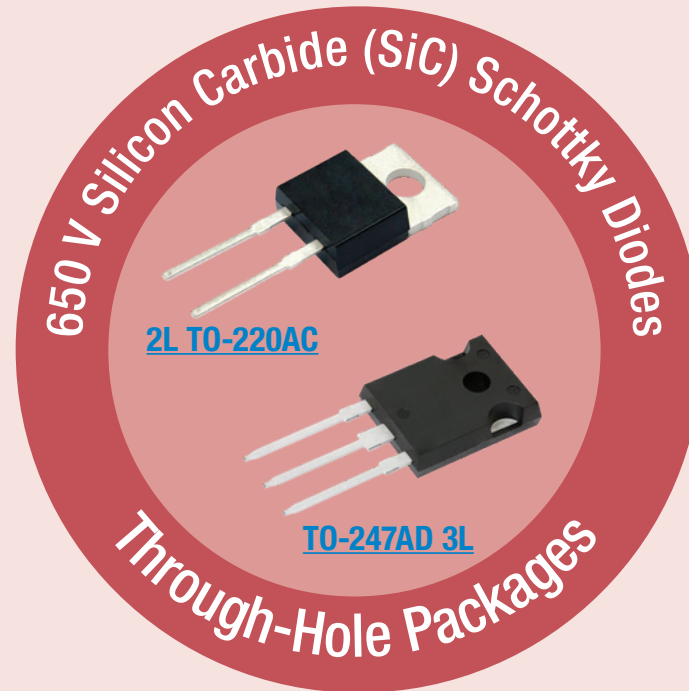
Low and stable leakage with temperature



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 _{F(AV)} (A)	V _{RRM} (V)	I _{FSM} at 25 °C, 10 ms (A)	V _{F (typ.)} at I _F and T _J			T _J max. (°C)	Package	Q _C (nC)
				V _F (V)	I _F (A)	T _J (°C)			
VS-C04ET07T-M3	4	650	26	1.75	4	150	175	2L TO-220AC	11
VS-C06ET07T-M3	6	650	39	1.7	6	150	175	2L TO-220AC	17
VS-C08ET07T-M3	8	650	57	1.7	8	150	175	2L TO-220AC	23
VS-C10ET07T-M3	10	650	68	1.75	10	150	175	2L TO-220AC	28
VS-C12ET07T-M3	12	650	80	1.65	12	150	175	2L TO-220AC	33
VS-C16ET07T-M3	16	650	120	1.65	16	150	175	2L TO-220AC	45
VS-C20ET07T-M3	20	650	160	1.6	20	150	175	2L TO-220AC	68
VS-C16CP07L-M3	16	650	53	1.7	8	150	175	TO-247AD 3L	21.5
VS-C20CP07L-M3	20	650	64	1.75	10	150	175	TO-247AD 3L	29
VS-C40CP07L-M3	40	650	160	1.55	20	150	175	TO-247AD 3L	68

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