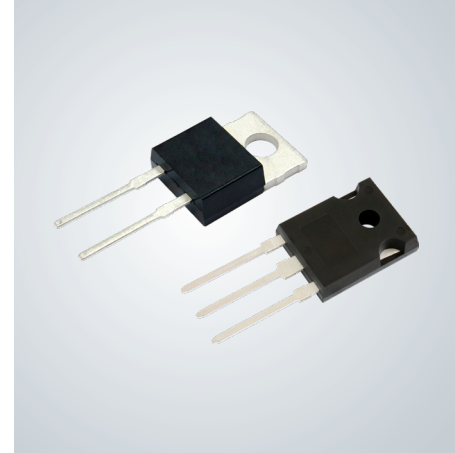




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650 V SiC Schottky Diodes Increase Efficiency for High Frequency Applications

Featuring an MPS design, 4 A to 40 A devices reduce switching losses and effects from temperature variances



PRODUCT BENEFITS

- Feature a merged PIN Schottky (MPS) design
- Available with current ratings from 4 A to 40 A
- Majority carrier diode using Schottky technology on SiC wide band gap material
- Positive V_F temperature coefficient for easy paralleling
- Virtually no recovery tail and no switching losses
- Offered in the 2L TO-220AC and TO-247AD 3L packages
- Provide high temperature operation to +175 °C
- RoHS-compliant and halogen-free

MARKET APPLICATIONS

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

SAMPLES

- Samples and production quantities are available now with lead times of ten weeks for larger orders

RESOURCES

- Datasheets: please see next page for the list of new 650 V SiC Schottky diodes now available in the 2L TO-220AC and TO-247AD 3L packages
- For technical questions, contact: DiodesAmericas@vishay.com, DiodesEurope@vishay.com, DiodesAsia@vishay.com
- Material categorization: for definitions of compliance, please see www.vishay.com/doc?99912



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KEY SPECIFICATIONS

- 650 V SiC Schottky diodes in the 2L TO-220AC and TO-247AD 3L packages

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	AEC-Q101
				V_F (V)	I_F (A)	T_J (°C)			
VS-C04ET07T-M3	4	650	26	1.75	4	150	175	2L TO-220AC	No
VS-C06ET07T-M3	6	650	39	1.7	6	150	175	2L TO-220AC	No
VS-C08ET07T-M3	8	650	57	1.7	8	150	175	2L TO-220AC	No
VS-C10ET07T-M3	10	650	68	1.75	10	150	175	2L TO-220AC	No
VS-C12ET07T-M3	12	650	80	1.65	12	150	175	2L TO-220AC	No
VS-C16ET07T-M3	16	650	120	1.65	16	150	175	2L TO-220AC	No
VS-C20ET07T-M3	20	650	160	1.6	20	150	175	2L TO-220AC	No
VS-C16CP07L-M3	16	650	53	1.7	8	150	175	TO-247AD 3L	No
VS-C20CP07L-M3	20	650	64	1.75	10	150	175	TO-247AD 3L	No
VS-C40CP07L-M3	40	650	160	1.55	20	150	175	TO-247AD 3L	No

Click on the part numbers to access the product's datasheet, 3D models, stock availability, and more.