



The DNA of tech.®

Gen 3 1200 V Silicon Carbide (SiC) Schottky Diodes

Increase Efficiency and Reliability for Switching Power Designs, Feature an MPS Design

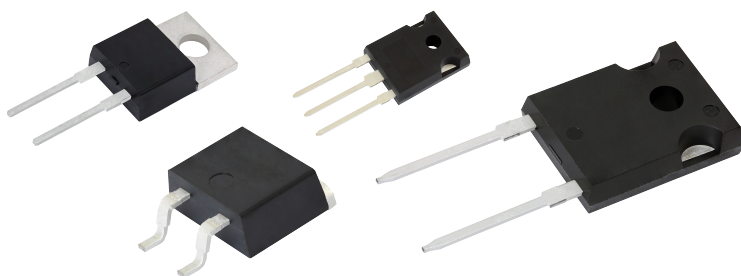


ADVANTAGE

5 A to 40 A devices offer lower forward voltage drop, capacitive charge, and reverse leakage current

KEY PRODUCT FEATURES

- ✓ Offered in TO-220AC 2L, TO-247AD 2L, and TO-247AD 3L through-hole and D2PAK 2L (TO-263AB 2L) SMD packages
- ✓ Low forward voltage drop down to 1.35 V
- ✓ Low capacitance charge down to 28 nC
- ✓ Low typical reverse leakage current down to 2.5 μ A at 25 °C
- ✓ Operating temperatures to +175 °C
- ✓ Forward surge ratings to 260 A



MARKETS AND APPLICATIONS



CONNECTIVITY

- Telecom mobile infrastructure



ENERGY SECTOR

- Generation and exploration
- Distribution and management
- Storage



INDUSTRIAL

- Drives and tools
- Infrastructure



COMPUTER

- Computer—PFC diode for server and datacenter power

RESOURCES



Order Samples



Product Page



Contact Us
Americas



Contact Us
Asia



Contact Us
Europe



Infographics



Gen 3 1200 V Silicon Carbide (SiC) Schottky Diodes

ADDITIONAL BENEFITS

- The devices' MPS structure—which features a backside thinned via laser annealing technology—reduces their forward voltage drop
- The diodes' low typical reverse leakage current reduces conduction losses, ensuring high system efficiency during light loads and idling
- Unlike ultrafast diodes, the Gen 3 devices have virtually no recovery tail, which further improves efficiency

Key Specifications

Part Number	$I_{F(AV)}$ (A)	V_F at I_F (V at A)	I_{FSM} (A)	Q_C (nC)	Package (JEDEC®) Code	Circuit Configuration
VS-3C05ET12T-M3	5	1.35	27	28	TO-220AC 2L	Single
VS-3C10ET12T-M3	10	1.35	45	55	TO-220AC 2L	Single
VS-3C15ET12T-M3	15	1.35	110	81	TO-220AC 2L	Single
VS-3C20ET12T-M3	20	1.35	180	107	TO-220AC 2L	Single
VS-3C05ET12S2L-M3	5	1.35	42	28	D ² PAK 2L (TO-263AB 2L)	Single
VS-3C10ET12S2L-M3	10	1.35	84	55	D ² PAK 2L (TO-263AB 2L)	Single
VS-3C15ET12S2L-M3	15	1.35	110	81	D ² PAK 2L (TO-263AB 2L)	Single
VS-3C20ET12S2L-M3	20	1.35	180	107	D ² PAK 2L (TO-263AB 2L)	Single
VS-3C10EP12L-M3	10	1.35	84	55	TO-247AD 2L	Single
VS-3C15EP12L-M3	15	1.35	110	81	TO-247AD 2L	Single
VS-3C20EP12L-M3	20	1.35	180	107	TO-247AD 2L	Single
VS-3C30EP12L-M3	30	1.35	260	182	TO-247AD 2L	Single
VS-3C10CP12L-M3	2 × 5	1.35	42	28	TO-247AD 3L	Common cathode
VS-3C20CP12L-M3	2 × 10	1.35	84	55	TO-247AD 3L	Common cathode
VS-3C30CP12L-M3	2 × 15	1.35	110	81	TO-247AD 3L	Common cathode
VS-3C40CP12L-M3	2 × 20	1.35	180	107	TO-247AD 3L	Common cathode