

# Gen 3 Silicon Carbide Schottky Diodes 4 A to 40 A, 650 V

## SiC Schottky Diodes Increase Efficiency and Reliability for Switching Power Designs

### KEY PRODUCT FEATURES

- Better efficiency—low forward voltage drop down to 1.46 V, low capacitive charge down to 12nC, low reverse leakage current down to 1.3  $\mu$ A
- Increased reliability—passes higher temperature reverse bias (HTRB) testing of 2000 h and temperature cycling testing of 2000 thermal cycles
- Offered in TO-220AC 2L and TO-247AD 3L through-hole and D2PAK 2L (TO-263AB 2L) surface-mount packages



#### ENERGY SECTOR

- Generation and exploration
- Distribution and management
- Storage



#### INDUSTRIAL

- Drives and tools
- Infrastructure



#### CONSUMER

- Appliances



#### COMPUTER

- Computer
- Notebook
- Server
- Desktop



#### CONNECTIVITY

- Mobile infrastructure
- Fixed infrastructure



### THE KEY SPECIFICATIONS

Part Number	$I_{F(AV)}$ (A)	$I_{FSM}$ (A)	$V_F$ at $I_F$ (V) <sup>(1)</sup>	$Q_C$ (nC)	Circuit Configuration	Package (JEDEC®) Code
<a href="#">VS-3C04ET07S2L-M3</a>	4	29	1.3	12	Single	D <sup>2</sup> PAK 2L (TO-263AB 2L)
<a href="#">VS-3C06ET07S2L-M3</a>	6	42	1.3	17	Single	D <sup>2</sup> PAK 2L (TO-263AB 2L)
<a href="#">VS-3C08ET07S2L-M3</a>	8	54	1.3	22	Single	D <sup>2</sup> PAK 2L (TO-263AB 2L)
<a href="#">VS-3C10ET07S2L-M3</a>	10	60	1.3	29	Single	D <sup>2</sup> PAK 2L (TO-263AB 2L)
<a href="#">VS-3C12ET07S2L-M3</a>	12	83	1.3	34	Single	D <sup>2</sup> PAK 2L (TO-263AB 2L)
<a href="#">VS-3C16ET07S2L-M3</a>	16	104	1.3	44	Single	D <sup>2</sup> PAK 2L (TO-263AB 2L)
<a href="#">VS-3C20ET07S2L-M3</a>	20	110	1.3	53	Single	D <sup>2</sup> PAK 2L (TO-263AB 2L)
<a href="#">VS-3C04ET07T-M3</a>	4	29	1.3	12	Single	TO-220AC 2L
<a href="#">VS-3C06ET07T-M3</a>	6	42	1.3	17	Single	TO-220AC 2L
<a href="#">VS-3C08ET07T-M3</a>	8	54	1.3	22	Single	TO-220AC 2L
<a href="#">VS-3C10ET07T-M3</a>	10	60	1.3	29	Single	TO-220AC 2L
<a href="#">VS-3C12ET07T-M3</a>	12	83	1.3	34	Single	TO-220AC 2L
<a href="#">VS-3C16ET07T-M3</a>	16	104	1.3	44	Single	TO-220AC 2L
<a href="#">VS-3C20ET07T-M3</a>	20	110	1.3	53	Single	TO-220AC 2L
<a href="#">VS-3C16CP07L-M3</a>	2 × 8	54	1.3	22	Common cathode	TO-247AD 3L
<a href="#">VS-3C20CP07L-M3</a>	2 × 10	60	1.3	29	Common cathode	TO-247AD 3L
<a href="#">VS-3C40CP07L-M3</a>	2 × 20	110	1.3	53	Common cathode	TO-247AD 3L

Source: [www.vishay.com](http://www.vishay.com)

# ECOMAL®

**Do not hesitate to contact us**  
**ECOMAL Europe GmbH**  
Business Development  
[technique@ecomal.com](mailto:technique@ecomal.com)