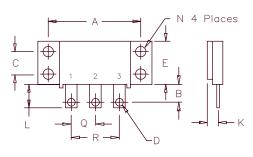
阅读申明

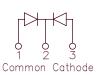
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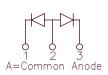
Read Statement

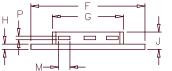
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Schottky Powermod FST16035 — FST16050











Notes:

Baseplate: Nickel plated copper;

electrically isolated Pins: Nickel plated copper

Microsemi	Working Peak	Repetitive Peak
Catalog Number	Reverse Voltage	Reverse Voltage
FST16035*	35V	35V
FST16040*	40V	40V
FST16045*	45V	45V
FST16050*	50V	50V
*Add the Suffix	A for Common A	node, D for Doubler

Dim.	Inches	Millimeters		
Min.	Max.	Min.	Max.	Notes
A 1.995	2.005	50.67	50.93	
B 0.300	0.325	7.62	8.26	
C 0.495	0.505	12.57	12.83	
D 0.182	0.192	4.62	4.88	Dia.
E 0.990	1.010	25.15	25.65	
F 2.390	2.410	60.71	61.21	
G 1.500	1.525	38.10	38.70	
H 0.120	0.130	3.05	3.30	
J	0.400		10.16	
K 0.240	0.260	6.10	6.60 to	Lead G
L 0.490	0.510	12.45	12.95	
M 0.330	0.350	8.38	6.90	
N 0.175	0.195	4.45	4.95	Dia.
P 0.035	0.045	0.89	1.14	
Q 0.445	0.455	11.30	11.56	
R 0.890	0.910	22.61	23.11	

TO - 249

- Schottky Barrier Rectifier
- Guard Ring for Reverse Protection
- VRRM 35 to 50 Volts
- High Surge Capacity
- Reverse Energy Tested
- ROHS Compliant

Electrical Characteristics

F(AV) 160 Amps Average forward current per pkg F(AV) 80 Amps Average forward current per leg İFSM 1200 Amps Maximum surge current per leg Max repetitive peak reverse current per leg R(OV) 2 Amps VFM ´.58 Volts Max peak forward voltage per leg VFM .74 Volts Max peak forward voltage per leg RМ 30 mA Max peak reverse current per leg Max peak reverse current per leg ŖМ 2 mA

 T C = 115°C, Square wave, R $_{ heta}$ JC = 0.5°C/W T C = 115°C, Square wave, R $_{ heta}$ JC = 1.0°C/W 8.3 ms, half sine T J = 175°C f C = 1 KHz, 25°C, 1 $_{ heta}$ Sec Square wave I FM = 80A: T J = 175°C* I FM = 80A: T J = 25°C*

TFM = 80A: TJ = 25°C* VRRM, TJ = 125°C* VRRM, TJ = 25°C VR = 5.0V, TJ = 25°C

*Pulse test: Pulse width 300µusec, Duty cycle 2%

Thermal and Mechanical Characteristics

2300 pF

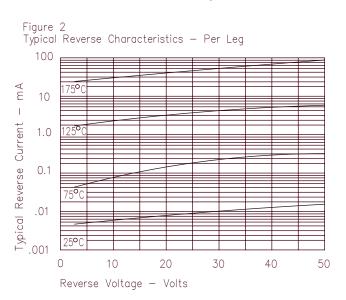
TSTG -55°C to 175°C -55°C to 175°C Storage temp range ΤJ Operating junction temp range Maximum thermal resistance per leg $\mathsf{R} \ominus \mathsf{JC}$ 1.0°C/W Junction to case $\mathsf{R} \; \theta \mathsf{JC}$ 0.5°C/W Junction to case Maximum thermal resistance per pkg. Recs 0.1°C/W Typical thermal resistance (greased) Case to sink 15 - 20 inch pounds Mounting torque Weight 2.5 ounces (71 grams) typical

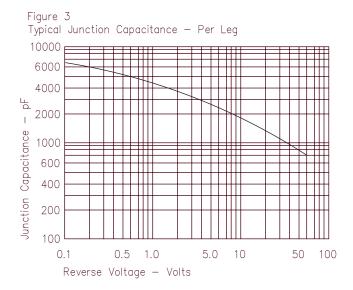


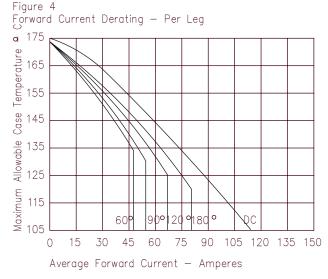
Typical junction capacitance per leg

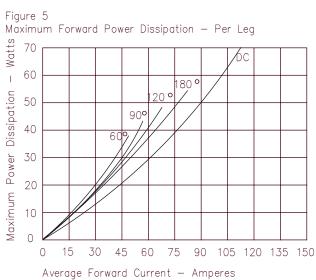
FST16035 - FST16050

Figure 1 Typical Forward Characteristics - Per Leg 800 600 400 200 100 80 60 40 Instantaneous Forward Current — Amperes 20 10 8.0 6.0 4.0 2.0 1.0 .2 0 .4 .6 .8 1.0 1.2 1.4 Instantaneous Forward Voltage - Volts











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