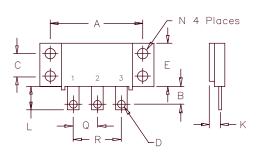
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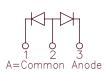
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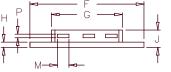
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Schottky Powermod FST16035 — FST16050











Notes:

Baseplate: Nickel plated copper;

electrically isolated Pins: Nickel plated copper

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

Dim	Inc	Inches Millimeters					
			Min.				
Mir		Max.				посе	S
A 1.99	5	2.005	50.67	50	.93		
B 0.30	0	0.325	7.62	8.	26		
C 0.49	15	0.505	12.57	12	.83		
D 0.18	2	0.192	4.62	4.	88	Dia.	
E 0.99	0	1.010	25.15	25	.65		
F 2.39	0	2.410	60.71	61	.21		
G 1.50	0	1.525	38.10	38	.70		
H 0.12	.0	0.130	3.05	3.	30		
J	_	0.400		10	.16		
K 0.24	-0	0.260	6.10	6.	60 to	Lead	Ç
L 0.49	0	0.510	12.45	12	.95		
M 0.33	50	0.350	8.38	6.	90		
N 0.17	5	0.195	4.45	4.	95	Dia.	
P 0.03	55	0.045	0.89	1.	14		
Q 0.44	-5	0.455	11.30	11.	.56		
R 0.89	0	0.910	22.61	23	.11		

T0 - 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, $^{R}\Theta JC$ = 0.5°C/W ^{T}C = 115°C, Square wave, $^{R}\Theta JC$ = 1.0°C/W 8.3 ms, half sine ^{T}J = 175°C f = 1 KHz, 25°C, 1µsec Square wave ^{I}FM = 80A: ^{T}J = 175°C*

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

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

Thermal and Mechanical Characteristics

2300 pF

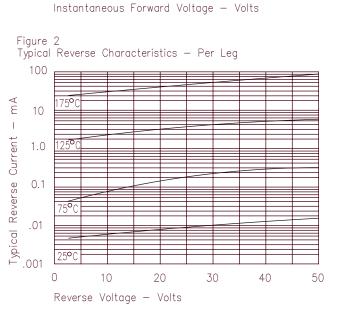
TSTG -55°C to 175°C -55°C to 175°C Storage temp range ТJ Operating junction temp range Maximum thermal resistance per leg $\mathsf{R} \ominus \mathsf{JC}$ 1.0°C/W Junction to case $\mathsf{R} \; \theta \mathsf{JC}$ 0.5°C/W Junction to case Maximum thermal resistance per pkg. Recs 0.1°C/W Typical thermal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

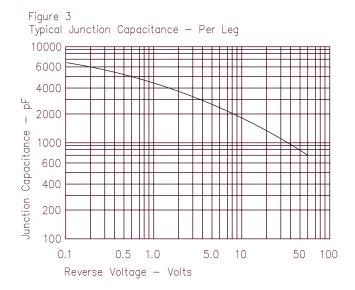


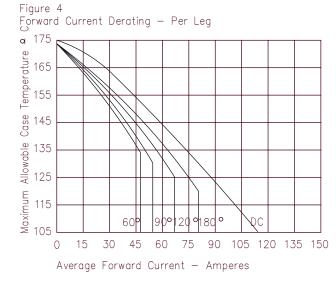
Typical junction capacitance per leg

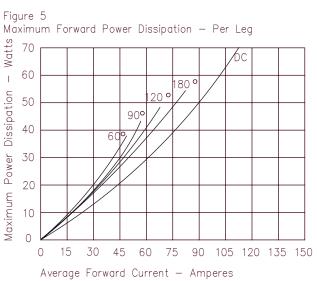
FST16035 - FST16050

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











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