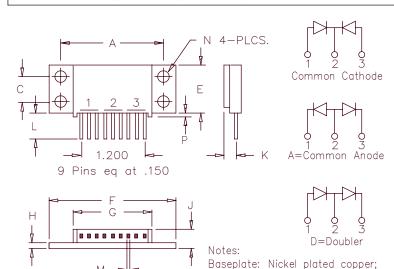
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# Schottky Powermod



Dim. Inches		Millimeter			
	Minimum	Maximum	Minimum	Maximur	n Note
A C E F G H J K L M N P	1.995 0.495 0.990 2.390 1.490 0.120  0.240 0.490 0.040 0.175 0.032	2.005 0.506 1.010 2.410 1.510 0.130 0.400 0.260 0.510 .050 0.195 0.052	50.67 12.57 25.15 60.71 37.85 3.05  6.10 12.45 1.02 4.45 0.81	50.93 12.83 25.65 61.21 38.35 3.30 10.16 6.60to 12.95 1.27 4.95 1.32	Lead & Square Dia

	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
FST6080* FST6090* FST60100*	80V 90V 100V	80V 90V 100V
*Add the Suffix	A for Common An	ode, D for Doubler

electrically isolated Pins: Nickel plated copper

- Schottky barrier rectifier
- Guard ring for reverse protection
- VRRM 80 to 100 Volts
- High surge capacity
- Reverse energy tested
- Electrically isolated baseplate
- ROHS Compliant

## Electrical Characteristics

F(AV) 120 Amps  $^{T}C = 130^{\circ}C$ , Square wave,  $R \Theta JC = 0.6^{\circ}C/W$ Average forward current per pkg F(AV) 60 Amps  $^{T}C = 130^{\circ}C$ , Square wave,  $R \Theta JC = 1.0^{\circ}C/W$ Average forward current per leg 8.3 ms, half sine T J = 175°C f = 1 KHz, 25°C, 1µsec Square wave IFM = 60A: T J = 175°C\*

IFM = 60A: T J = 25°C\*

VRRM, TJ = 125°C\*

VRRM, TJ = 25°C 1200 Amps FSM Maximum surge current per leg Max repetitive peak reverse current per leg R(OV) 2 Amps VFM .68 Volts Max peak forward voltage per leg VFM .86 Volts Max peak forward voltage per leg RМ 30 mA Max peak reverse current per leg RМ 2 mA Max peak reverse current per leg ÇJ  $V_R = 5.0V, T_J = 25^{\circ}C$ Typical junction capacitance per leg 1500 pF

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

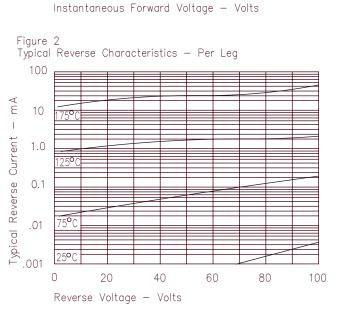
#### Thermal and Mechanical Characteristics TSTG Storage temp range -55°C to 175°C ΤJ -55℃ to 175℃ Operating junction temp range Maximum thermal resistance per leg R OJC 1.0°C/W Junction to case Maximum thermal resistance per pkg 0.6°C/W R OJC Junction to case Recs 0.1°C/W Typical thermal resistance (greased) Case to sink 15 - 20 inch pounds maximum Mounting torque Weight 2.5 ounces (71 grams) typical

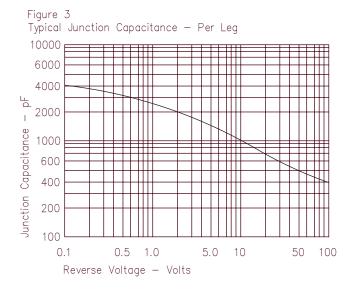
www.microsemi.com



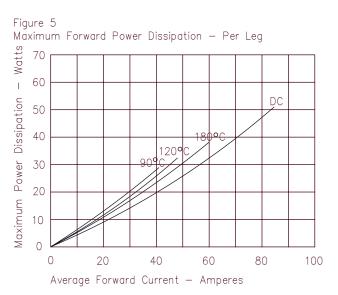
# FST6080 - FST60100

Figure 1 Typical Forward Characteristics -Per Leg 1000 800 600 400 200 100 80 60 40 Instantaneous Forward Current — Amperes 20 10 8.0 6.0 4.0 2.0 1.0 .3 .5 .7 .9 0 1.1 1.3 1.5











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