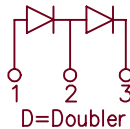
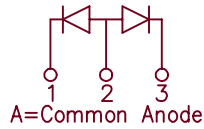
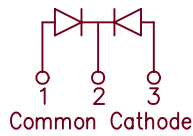
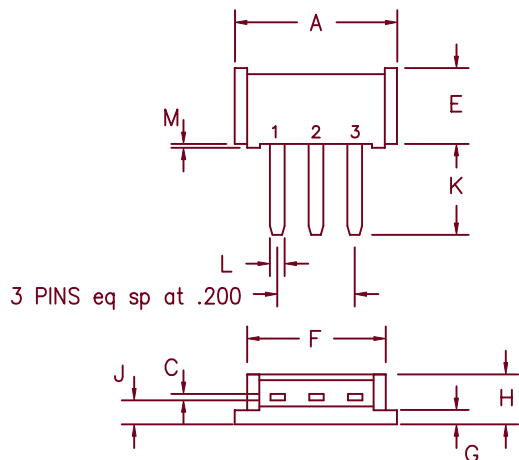


Schottky MiniMod FST8230SM



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.765	.790	19.43	20.07	
C	.027	.037	0.69	0.94	
E	.340	.350	8.64	8.89	
F	.650	.670	16.51	17.02	
G	.065	.075	1.65	1.91	
H	.215	.235	5.46	5.97	
J	.110	.125	2.79	3.18	
K	.460	.485	11.68	12.32	
L	.065	.085	1.65	2.16	
M	.030	.040	0.76	1.02	

NOTES:

1. Baseplate Common with Pin 2
2. Lead Forming available. Consult Factory

Microsemi
Catalog Number

FST8230SM*

Working
Peak Reverse
Voltage

30V

Repetitive
Peak Reverse
Voltage

30V

*Add the Suffix A for Common Anode, D for Doubler

- Schottky Barrier Rectifier
- Guard Ring Protection
- 2X40 Amperes avg.
- 150°C Junction Temperature
- Reverse Energy Tested
- Low Forward Voltage

Electrical Characteristics

Average forward current per pkg
Average forward current per leg
Maximum surge current per leg
Max repetitive peak reverse current per leg
Max peak forward voltage per leg
Max peak forward voltage per leg
Max peak reverse current per leg
Max peak reverse current per leg
Typical reverse current per leg
Typical junction capacitance per leg

I_{F(AV)} 80 Amps
I_{F(AV)} 40 Amps
I_{FSM} 800 Amps
I_{R(OV)} 2 Amps
V_{FM} 0.42 Volts
V_{FM} 0.47 Volts
I_{RM} 300 mA
I_{RM} 5 mA
I_{RM} 3 mA
C_J 2400 pF

T_C = 115°C, Square wave, R_{θJC} = 0.5°C/W
T_C = 115°C, Square wave, R_{θJC} = 1.0°C/W
8.3 ms, half sine, T_J = 150°C
f = 1 KHZ, 25°C, 1 usec square wave
I_{FM} = 40A: T_J = 150°C*
I_{FM} = 40A: T_J = 25°C*
V_{RRM}, T_J = 125°C*
V_{RRM}, T_J = 25°C
V_{RRM}, T_J = 25°C
V_R = 5.0V, T_C = 25°C

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

Thermal and Mechanical Characteristics

Storage temp range
Operating junction temp range
Max thermal resistance per leg
Max thermal resistance per pkg
Typical thermal resistance (greased)
Weight

T_{STG}
T_J
R_{θJC}
R_{θJC}
R_{θCS}

-55°C to 175°C
-55°C to 150°C
1.0°C/W Junction to case
0.5°C/W Junction to case
0.3°C/W Case to sink
0.3 ounce (8.4 grams) typical

FST8230SM

Figure 1
Typical Forward Characteristics – Per Leg

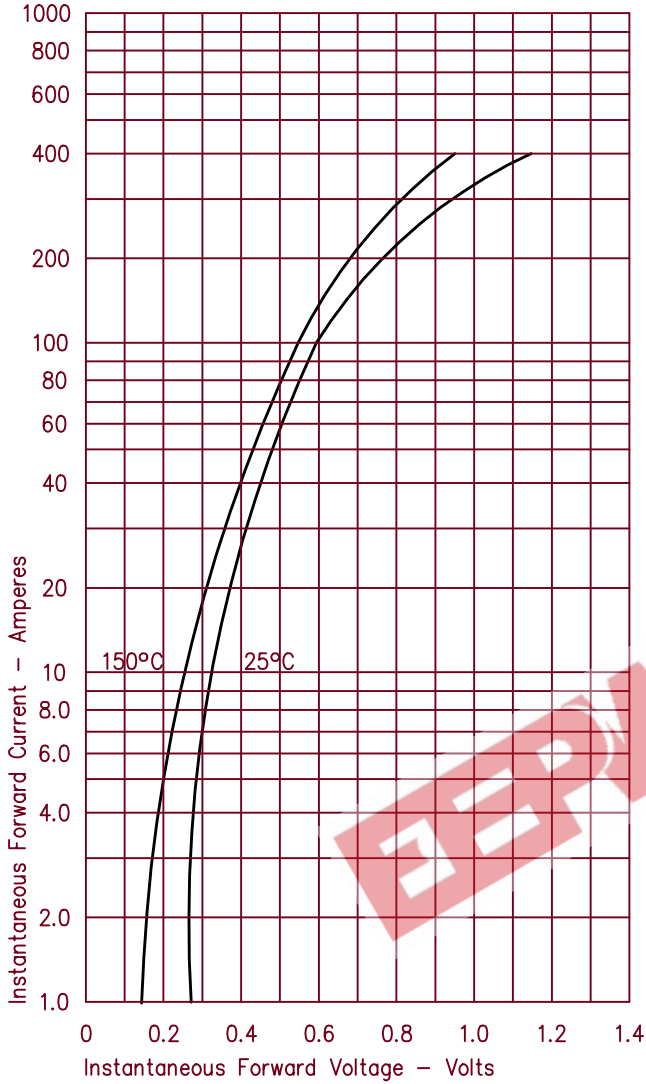


Figure 3
Typical Junction Capacitance – Per Leg

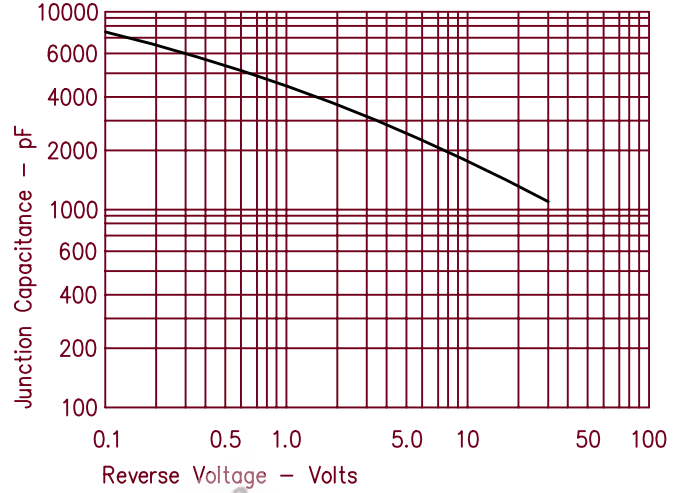


Figure 4
Forward Current Derating – Per Leg

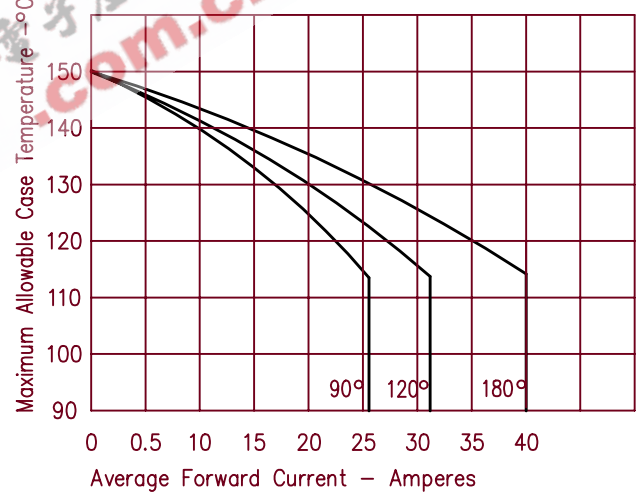


Figure 2
Typical Reverse Characteristics – Per Leg

