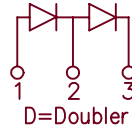
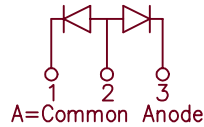
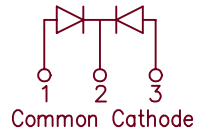
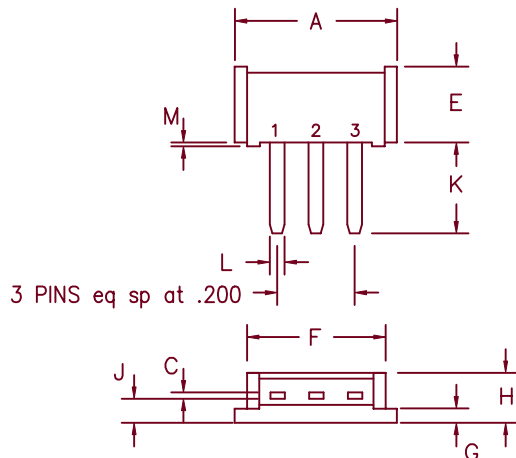


Schottky MiniMod FST8230SM



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	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage	• Schottky Barrier Rectifier • Guard Ring Protection • 2X40 Amperes avg. • 150°C Junction Temperature • Reverse Energy Tested • Low Forward Voltage
FST8230SM*	30V	30V	
*Add the Suffix A for Common Anode, D for Doubler			

Electrical Characteristics

Average forward current per pkg	I _{F(AV)} 80 Amps	T _C = 115°C, Square wave, R _{θJC} = 0.5°C/W
Average forward current per leg	I _{F(AV)} 40 Amps	T _C = 115°C, Square wave, R _{θJC} = 1.0°C/W
Maximum surge current per leg	I _{FSM} 800 Amps	8.3 ms, half sine, T _J = 150°C
Max repetitive peak reverse current per leg	I _{R(OV)} 2 Amps	f = 1 KHZ, 25°C, 1 usec square wave
Max peak forward voltage per leg	V _{FM} 0.42 Volts	I _{FM} = 40A: T _J = 150°C*
Max peak forward voltage per leg	V _{FM} 0.47 Volts	I _{FM} = 40A: T _J = 25°C*
Max peak reverse current per leg	I _{RM} 300 mA	V _{RRM} , T _J = 125°C*
Max peak reverse current per leg	I _{RM} 5 mA	V _{RRM} , T _J = 25°C
Typical reverse current per leg	I _{RM} 3 mA	V _{RRM} , T _J = 25°C
Typical junction capacitance per leg	C _J 2400 pF	V _R = 5.0V, T _C = 25°C

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

Thermal and Mechanical Characteristics

Storage temp range	T _{STG}	-55°C to 175°C
Operating junction temp range	T _J	-55°C to 150°C
Max thermal resistance per leg	R _{θJC}	1.0°C/W Junction to case
Max thermal resistance per pkg	R _{θJC}	0.5°C/W Junction to case
Typical thermal resistance (greased)	R _{θCS}	0.3°C/W Case to sink
Weight		0.3 ounce (8.4 grams) typical

FST8230SM

Figure 1
Typical Forward Characteristics – Per Leg

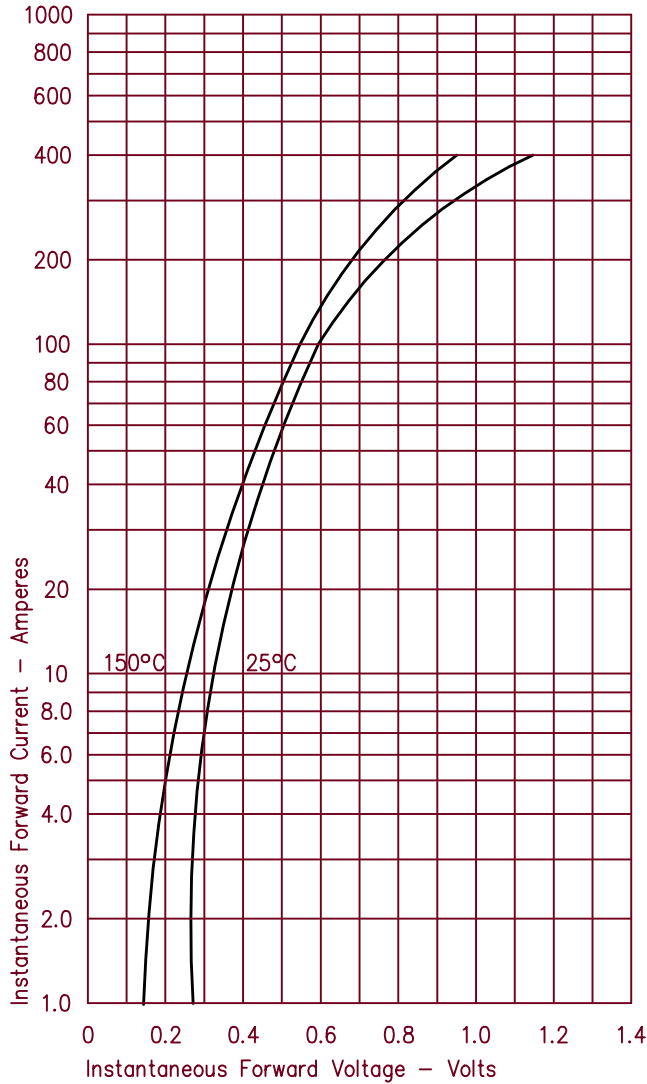


Figure 2
Typical Reverse Characteristics – Per Leg

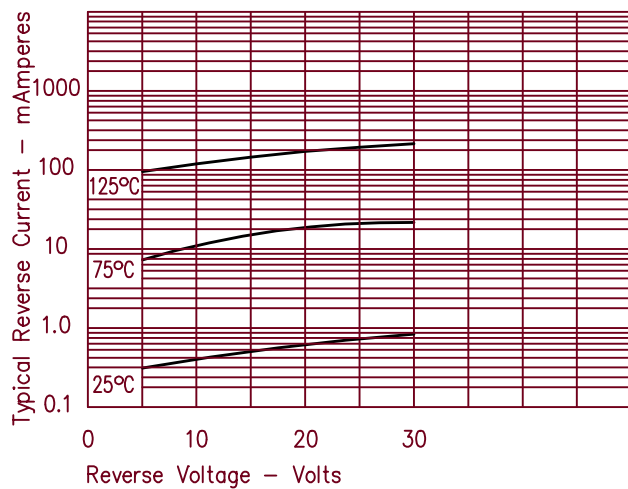


Figure 3
Typical Junction Capacitance – Per Leg

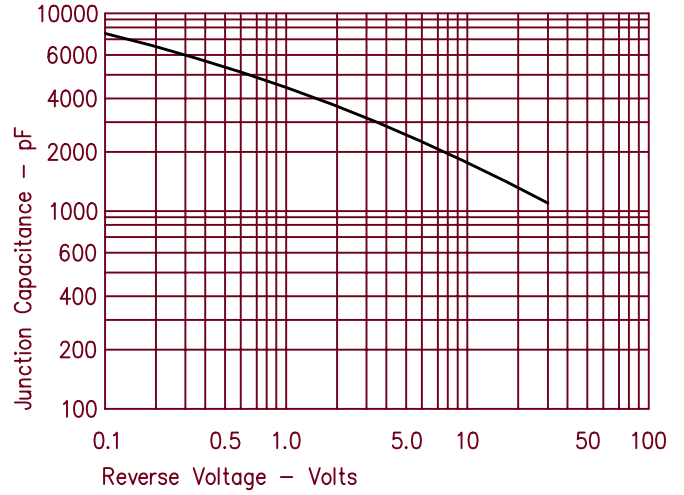


Figure 4
Forward Current Derating – Per Leg

