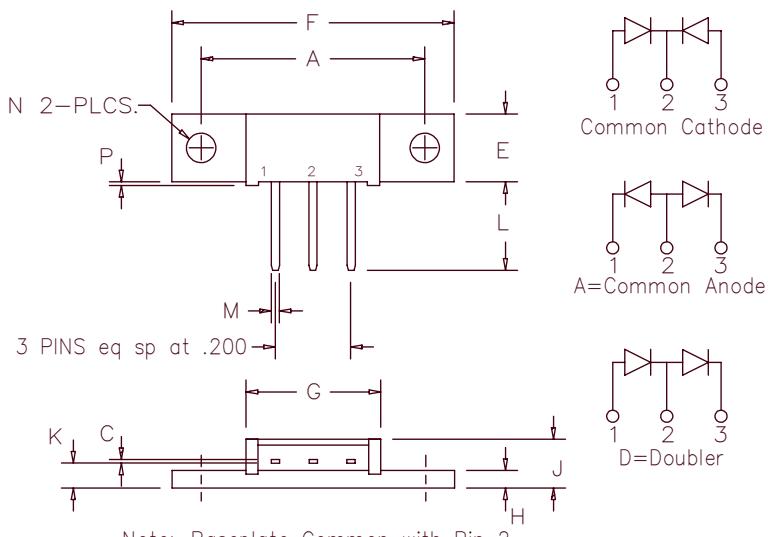


Schottky MiniMod

FST6130 – FST6145



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.180	.195	29.97	30.35	
C	.025	.035	0.64	0.89	
E	.350	.370	8.89	9.40	
F	1.490	1.510	37.85	38.35	
G	.695	.715	17.65	18.16	
H	.088	.098	2.24	2.49	
J	.240	.260	6.10	6.60	
K	.115	.135	2.92	3.43	
L	.460	.480	11.68	12.19	
M	.034	.046	0.86	1.17	
N	.151	.161	3.84	4.09	
P	.015	.025	0.38	0.64	Dia.

Microsemi
Catalog Number

Industry
Part Number

Working
Peak Reverse
Voltage

Repetitive
Peak Reverse
Voltage

FST6130*
FST6135*
FST6140*
FST6145*

60CNQ035
60CNQ040
60CNQ045

30V
35V
40V
45V

30V
35V
40V
45V

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

- Schottky Barrier Rectifier
- Guard Ring Protection
- 2X30 Amperes avg.
- 150°C Junction Temperature
- Reverse Energy Tested
- Low Forward Voltage
- ROHS Compliant

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 reverse current per leg
Typical junction capacitance per leg

|F(AV) 60 Amps
|F(AV) 30 Amps
|FSM 800 Amps
|R(OV) 2 Amps
VFM 0.42 Volts
VFM 0.50 Volts
|RM 500 mA
|RM 3.0 mA
C_J 2100 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, 1μsec square wave
| FM = 30A: T_J = 150°C*
| FM = 30A: T_J = 25°C*
V_{RRM}, T_J = 125°C*
V_{RRM}, T_J = 25°C
V_R = 5.0V, T_C = 25°C

*Pulse test: Pulse width 300μsec, 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)
Mounting Base Torque
Weight

T_{SG}
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
10 inch pounds maximum
0.3 ounce (8.4 grams) typical

FST6130 – FST6145

Figure 1
Typical Forward Characteristics – Per Leg

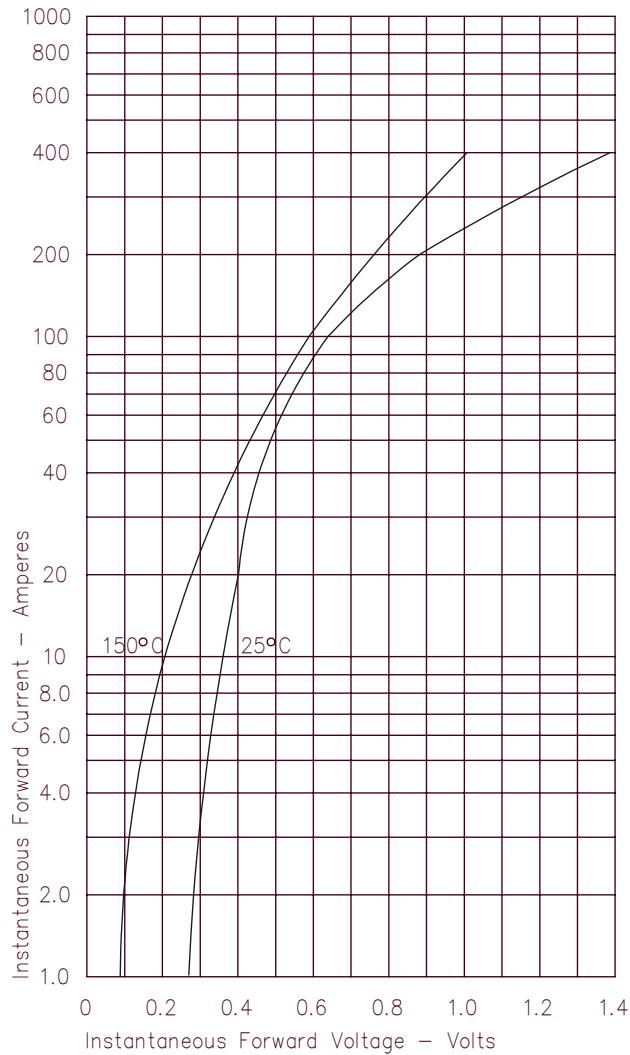


Figure 2
Typical Reverse Characteristics – Per Leg

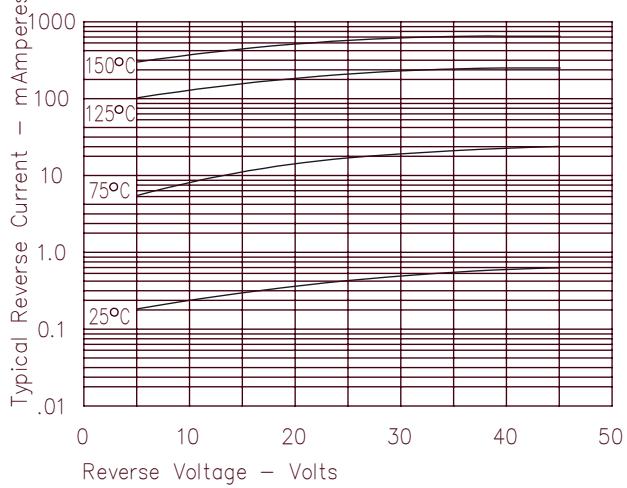


Figure 3
Typical Junction Capacitance – Per Leg

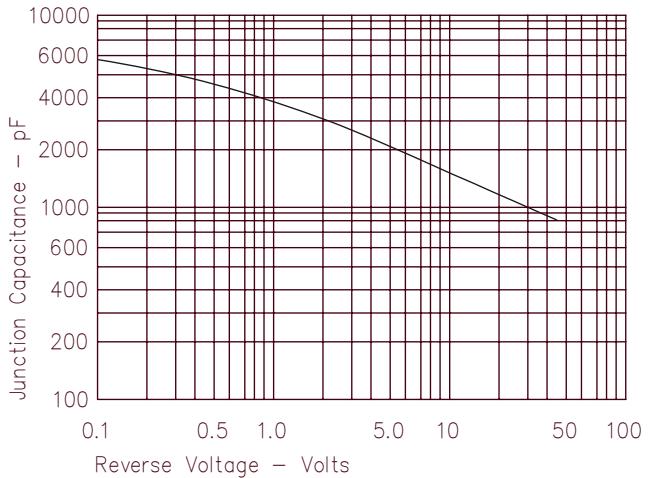


Figure 4
Forward Current Derating – Per Leg

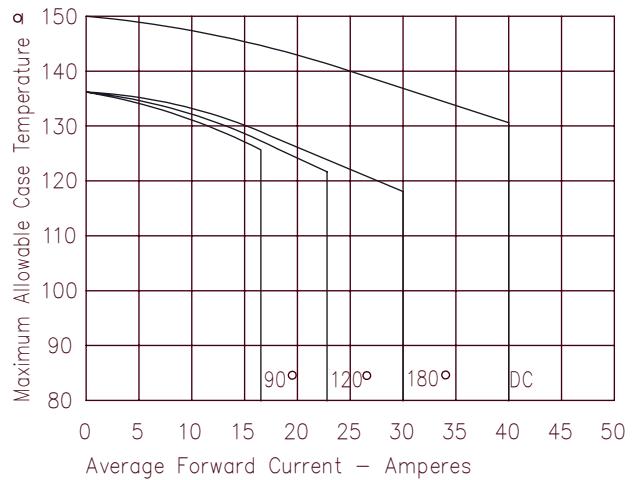


Figure 5
Maximum Forward Power Dissipation – Per Leg

