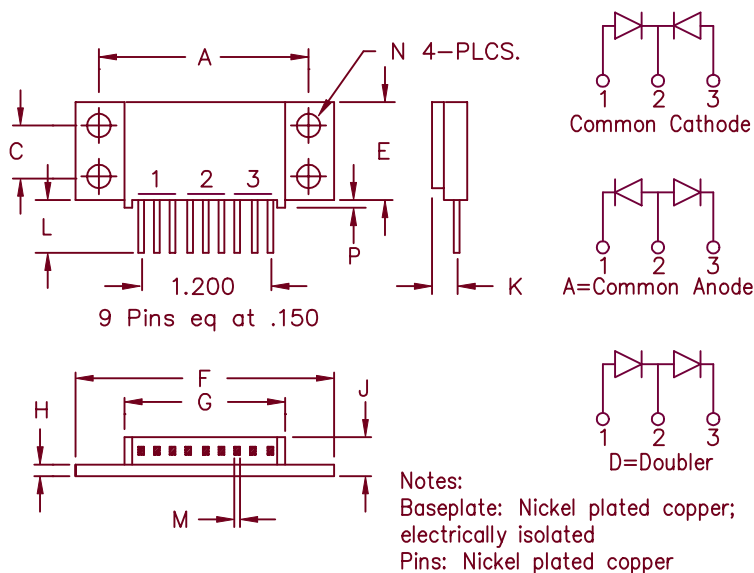


Schottky PowerMod

FST10135 — FST10145



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

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
FST10135*	35V	35V
FST10140*	40V	40V
FST10145*	45V	45V

*Add Suffix A for Common Anode, D for Doubler

- Schottky Barrier Rectifier
- Guard Ring for Reverse Protection
- Low forward voltage
- VRRM 35 to 45 Volts
- Electrically isolated base
- Reverse Energy Tested
- Center tap

Electrical Characteristics

Average forward current per pkg	$I_F(AV)$ 100 Amps	$T_C = 85^\circ C$, Square wave, $R_{\theta JC} = 0.5^\circ C/W$
Average forward current per leg	$I_F(AV)$ 50 Amps	$T_C = 85^\circ C$, Square wave, $R_{\theta JC} = 1.0^\circ C/W$
Maximum surge current per leg	I_{FSM} 1000 Amps	8.3 ms, half sine $T_J = 175^\circ C$
Max repetitive peak reverse current per leg	$I_{R(OV)}$ 2 Amps	$f = 1$ KHz, $25^\circ C$, 1 μ sec Square wave
Max peak forward voltage per leg	V _{FM} .48 Volts	I _{FM} = 50A: $T_J = 125^\circ C^*$
Max peak forward voltage per leg	V _{FM} .53 Volts	I _{FM} = 50A: $T_J = 25^\circ C^*$
Max peak reverse current per leg	I _{RM} 600 mA	V _R = 5.0V, $T_J = 25^\circ C$
Max peak reverse current per leg	I _{RM} 2 mA	V _R = 5.0V, $T_J = 25^\circ C$
Typical junction capacitance per leg	C _J 2700 pF	

*Pulse test: Pulse width 300 μ sec, 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 125°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}	0.1°C/W Case to sink
Mounting torque		15-20 inch pounds
Weight		2.5 ounces (71 grams) typical

FST10135 — FST10145

Figure 1
Typical Forward Characteristics — Per Leg

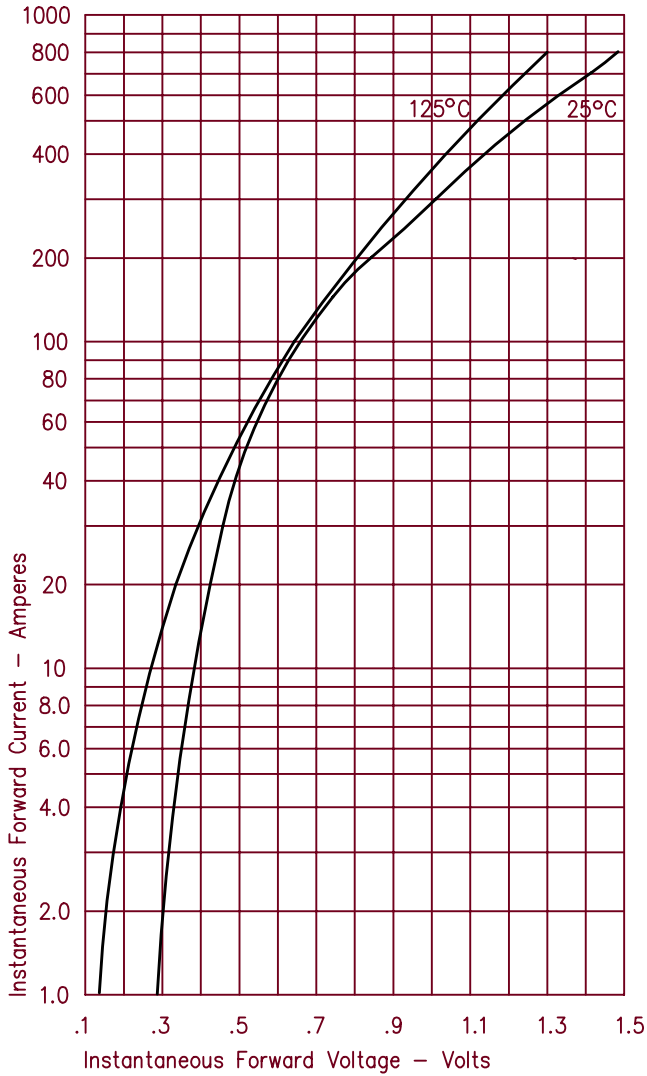


Figure 3
Typical Junction Capacitance — Per Leg

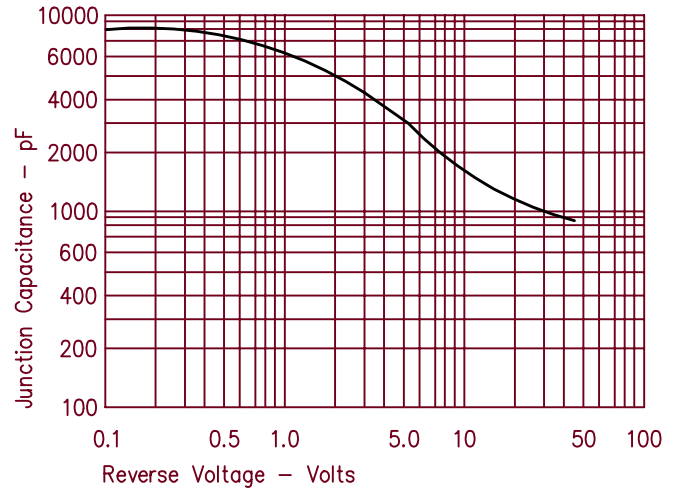


Figure 4
Forward Current Derating — Per Leg

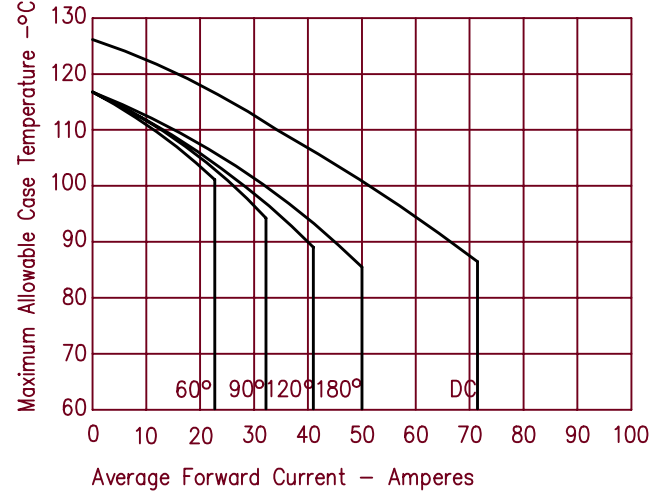


Figure 2
Typical Reverse Characteristics — Per Leg

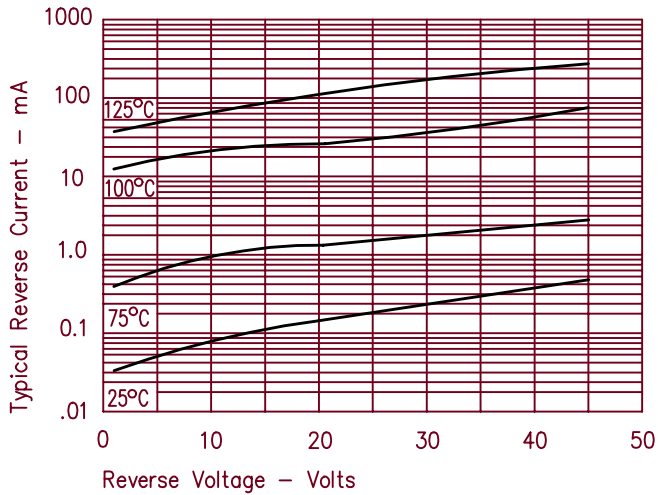
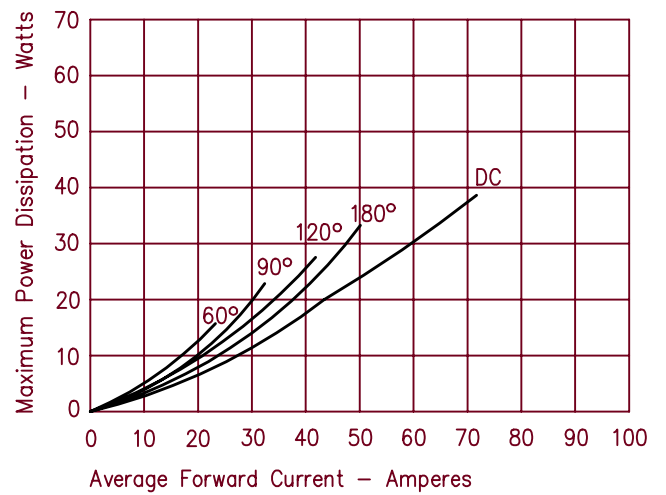


Figure 5
Maximum Forward Power Dissipation — Per Leg





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