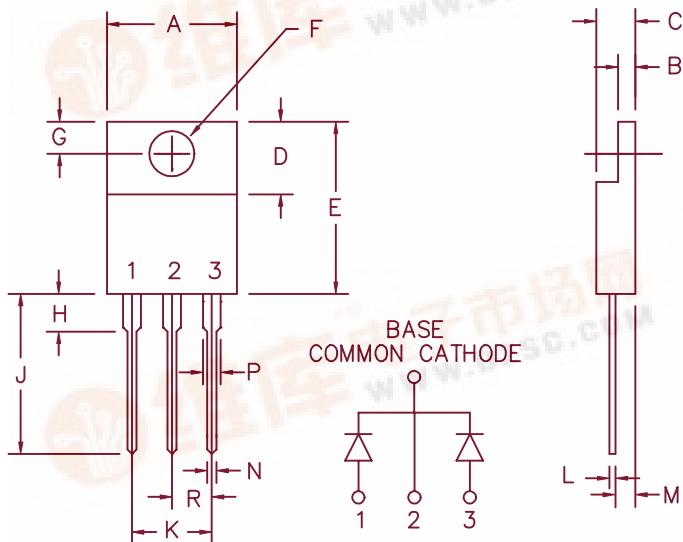


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捷多邦，专业PCB设计工厂，24小时加急出货

20 Amp Schottky Barrier Rectifiers

FST2080 — FST20100



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.390	.415	9.91	10.54	
B	.045	.055	1.14	1.40	
C	.180	.190	4.57	4.83	
D	.245	.260	6.22	6.60	
E	.550	.650	13.97	16.51	
F	.139	.161	3.53	4.09	Dia.
G	.100	.135	2.54	3.43	
H	---	.250	---	6.35	
J	.500	.580	12.70	14.73	
K	.190	.210	4.83	5.33	
L	.014	.022	.357	.559	
M	.080	.115	2.03	2.92	
N	.015	.040	.380	1.02	
P	.045	.070	1.14	1.78	
R	.090	.110	2.29	2.79	

PLASTIC TO-220AB

Microsemi Catalog Number

FST2080
FST2090
FST20100

Repetitive Peak Reverse Voltage

80V
90V
100V

Transient Peak Reverse Voltage

80V
90V
100V

- Schottky barrier rectifier
- Guard ring for reverse protection
- Low power loss, high efficiency
- High surge capacity
- V_{RRM} 80 to 100 Volts

Electrical Characteristics

Average Forward Current per pkg.
Average Forward Current per leg
Maximum Surge 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 Junction Capacitance

$I_F(AV)$ 20 Amps
 $I_F(AV)$ 10 Amps
 I_{FSM} 225 Amps
 V_{FM} .66 Volts
 V_{FM} .85 Volts
 I_{RM} 10 mA
 I_{RM} 250 μ A
 C_J 440 pF

$T_C = 128^\circ\text{C}$, Square wave, $R_{\theta JC} = 2.8^\circ\text{C}/\text{W}$
 $T_C = 128^\circ\text{C}$, Square wave, $R_{\theta JC} = 5.6^\circ\text{C}/\text{W}$
8.3ms, half sine, $T_J = 175^\circ\text{C}$
 $I_{FM} = 10\text{A}$, $T_J = 175^\circ\text{C}$ *
 $I_{FM} = 10\text{A}$, $T_J = 25^\circ\text{C}$ *
 V_{RRM} , $T_J = 125^\circ\text{C}$ *
 V_{RRM} , $T_J = 25^\circ\text{C}$
 $V_R = 5.0\text{V}$, $T_J = 25^\circ\text{C}$

*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 per leg
Mounting torque
Weight

TSG
 T_J
 $R_{\theta JC}$
 $R_{\theta JC}$
 $R_{\theta JC}$

-55°C to $+ 175^\circ\text{C}$
 -55°C to $+ 175^\circ\text{C}$
 $5.6^\circ\text{C}/\text{W}$
 $2.8^\circ\text{C}/\text{W}$
 $4.7^\circ\text{C}/\text{W}$
15 inch pounds maximum (6-32 screw)
.08 ounces (2.3 grams) typical

FST2080 – FST20100

Figure 1
Typical Forward Characteristics – Per Leg

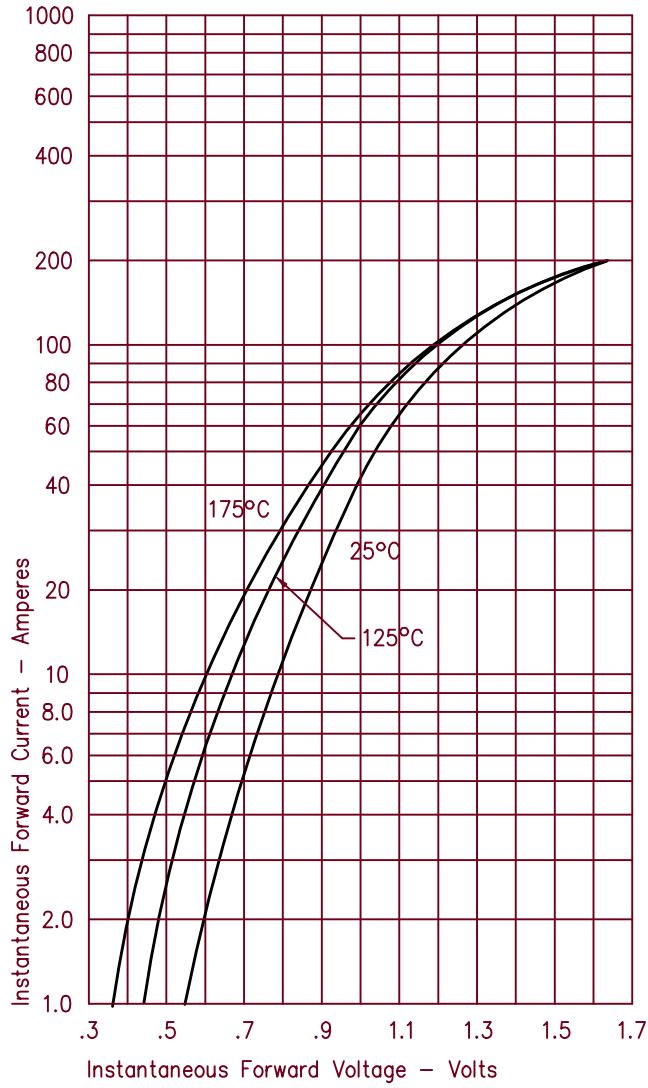


Figure 3
Typical Junction Capacitance – Per Leg

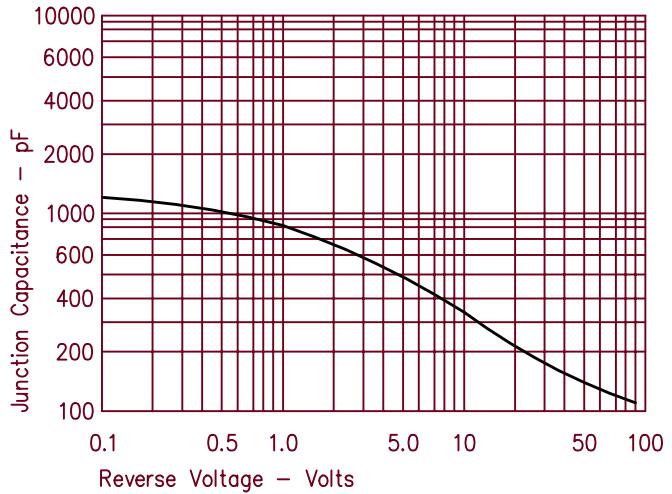


Figure 4
Forward Current Derating – Per Leg

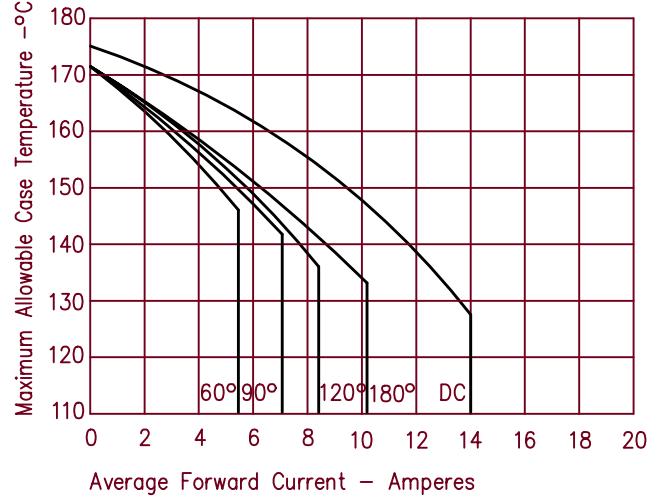


Figure 2
Typical Reverse Characteristics – Per Leg

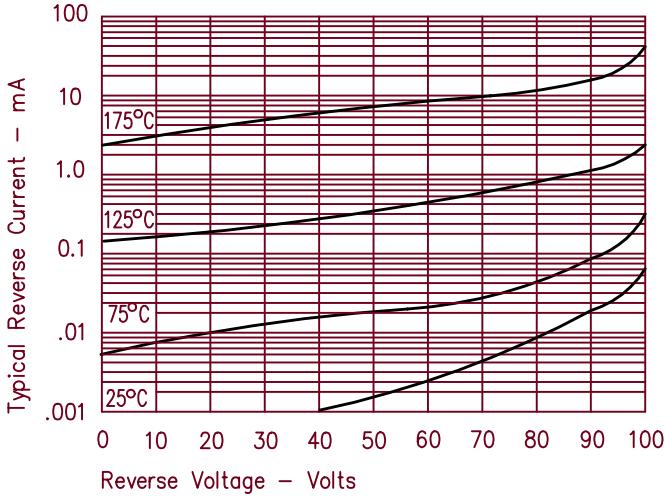


Figure 5
Maximum Forward Power Dissipation – Per Leg

