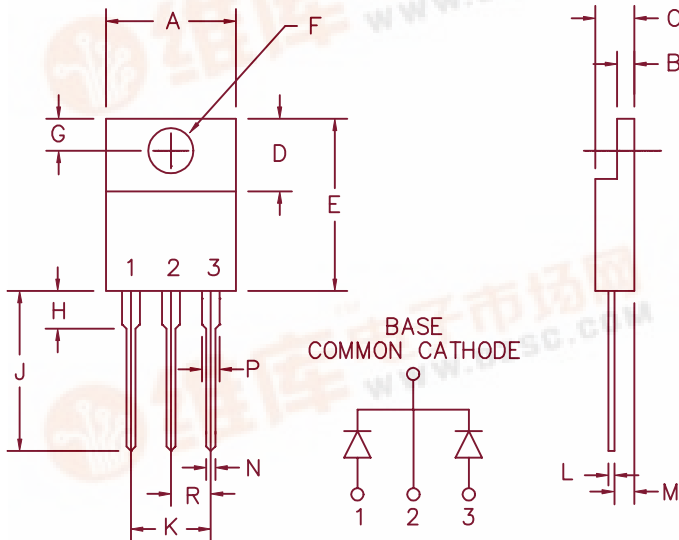


10 Amp Schottky Barrier Rectifiers

FST1080 — FST10100

查询FST10100供应商

搜多邦, 专业PCB打样工厂, 24小时加急出货



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

Technical Bulletin

Microsemi Catalog
Number

FST1080
FST1090
FST10100

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

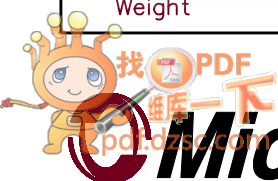
Electrical Characteristics

Average Forward Current per pkg.	$I_F(AV)$ 10 Amps	$T_C = 150^\circ C$, Square wave, $R_{\theta JC} = 2.8^\circ C/W$
Average Forward Current per leg	$I_F(AV)$ 5 Amps	$T_C = 150^\circ C$, Square wave, $R_{\theta JC} = 5.6^\circ C/W$
Maximum Surge Current per leg	I_{FSM} 200 Amps	8.3ms, half sine, $T_J = 175^\circ C$
Max. Peak Forward Voltage per leg	V_{FM} .60 Volts	$I_{FM} = 5A, T_J = 175^\circ C^*$
Max. Peak Forward Voltage per leg	V_{FM} .85 Volts	$I_{FM} = 5A, T_J = 25^\circ C^*$
Max. Peak Reverse Current per leg	I_{RM} 10 mA	$V_{RRM}, T_J = 125^\circ C^*$
Max. Peak Reverse Current per leg	I_{RM} 250 μA	$V_{RRM}, T_J = 25^\circ C$
Typical Junction Capacitance	C_J 280 pF	$V_R = 5.0V, T_J = 25^\circ C$

*Pulse test: Pulse width 300 μsec Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temp range	T_{STG}	$-55^\circ C$ to $175^\circ C$
Operating junction temp range	T_J	$-55^\circ C$ to $175^\circ C$
Max thermal resistance per leg	$R_{\theta LC}$	$5.6^\circ C/W$
Max thermal resistance per pkg.	$R_{\theta JC}$	$2.8^\circ C/W$
Typical thermal resistance per leg	$R_{\theta JC}$	$4.7^\circ C/W$
Mounting torque		15 inch pounds maximum (6-32 screw)
Weight		.08 ounces (2.3 grams) typical



COLORADO

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Broomfield, CO. 80020
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1-27-00 Rev. IR

FST1080 — FST10100

Figure 1
Typical Forward Characteristics — Per Leg

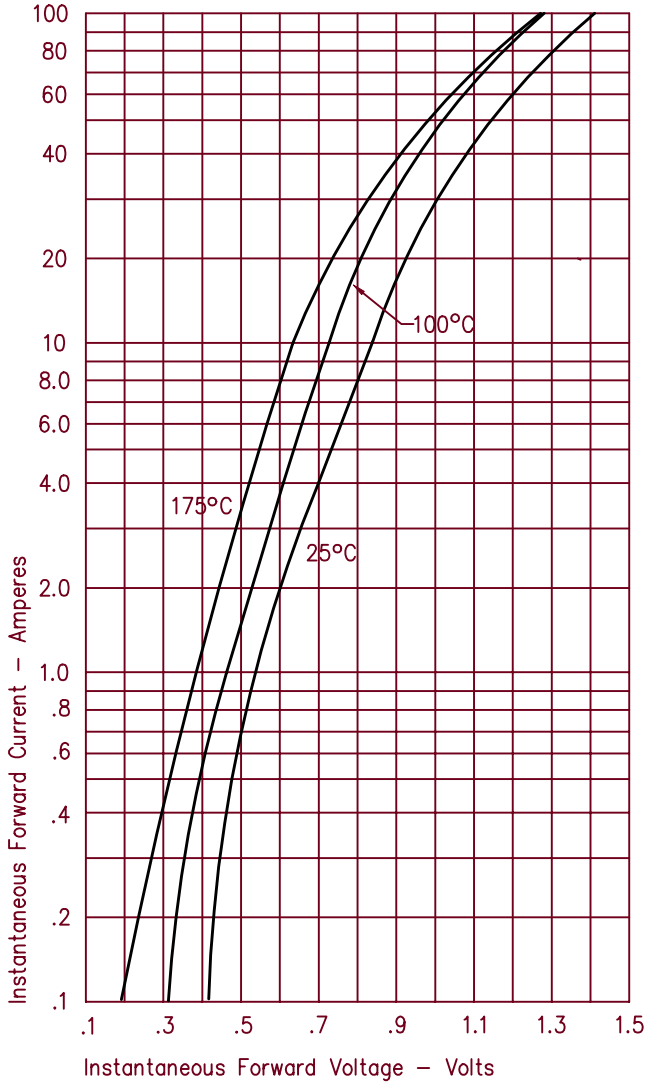


Figure 3
Typical Junction Capacitance — Per Leg

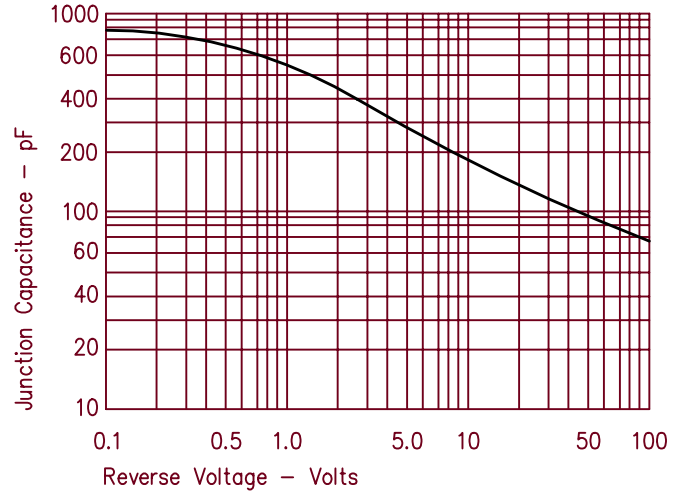


Figure 4
Forward Current Derating — Per Leg

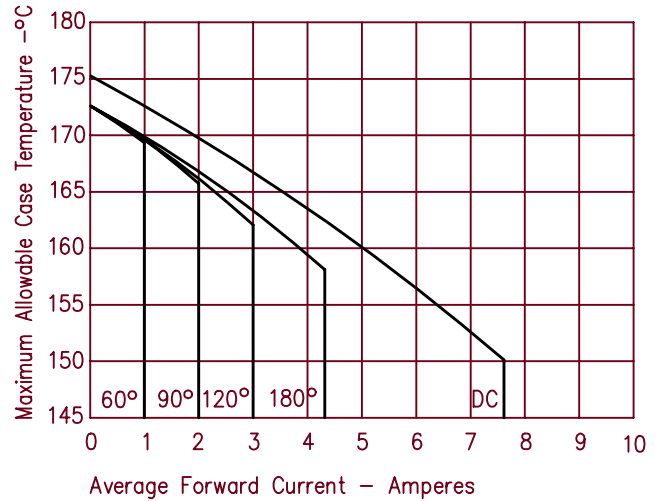


Figure 2
Typical Reverse Characteristics — Per Leg

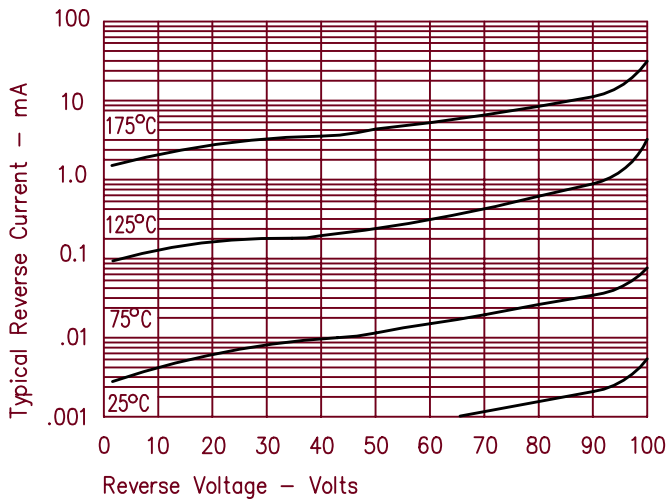


Figure 5
Maximum Forward Power Dissipation — Per Leg

