

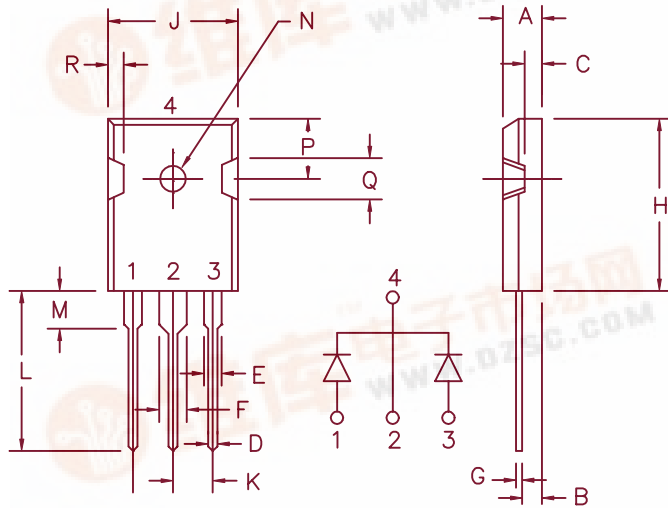
30Amp Schottky Barrier Rectifier

FST3040 — FST3050

查询FST3040供应商

通多邦 专业PCB打样工厂

24小时加急出货



Similar to TO-247AD

Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.185	.209	4.70	5.31	
B	.087	.102	2.21	2.59	
C	.059	.098	1.50	2.49	
D	.040	.055	1.02	1.40	
E	.079	.094	2.01	2.39	
F	.118	.133	3.00	3.38	
G	.016	.031	.410	0.78	
H	.819	.883	20.80	22.4	
J	.627	.650	15.93	16.5	
K	.215	—	5.46	—	Typ.
L	.790	.810	20.07	20.6	
M	.157	.180	3.99	4.57	
N	.139	.144	3.53	3.66	Dia.
P	.255	.300	6.48	7.62	
Q	.170	.210	4.32	5.33	
R	.080	.110	2.03	2.79	

Microsemi Catalog Number

FST3040
FST3045
FST3050

Repetitive Peak Reverse Voltage

40V
45V
50V

Transient Peak Reverse Voltage

40V
45V
50V

- Schottky Barrier Rectifier
- Guard ring for reverse protection
- Low power loss, high efficiency
- High surge capacity
- VRRM 40 to 50 Volts

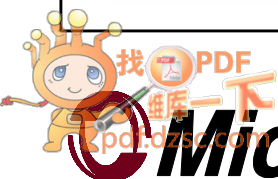
Electrical Characteristics

Average Forward Current per pkg.	$I_{F(AV)}$ 30Amps	$T_C = 157^\circ\text{C}$, Square wave, $R_{\theta JC} = 0.9^\circ\text{C/W}$
Average Forward Current per leg	$I_{F(AV)}$ 15Amps	$T_C = 157^\circ\text{C}$, Square wave, $R_{\theta JC} = 1.8^\circ\text{C/W}$
Maximum Surge Current per leg	I_{FSM} 350 Amps	8.3ms, half sine, $T_J = 175^\circ\text{C}$
Max. Peak Forward Voltage per leg	V_{FM} .50 Volts	$I_{FM} = 15\text{A}$, $T_J = 175^\circ\text{C}^*$
Max. Peak Forward Voltage per leg	V_{FM} .66 Volts	$I_{FM} = 15\text{A}$, $T_J = 25^\circ\text{C}^*$
Max. Peak Reverse Current per leg	I_{RM} 15 mA	V_{RRM} , $T_J = 125^\circ\text{C}^*$
Max. Peak Reverse Current per leg	I_{RM} 500 μA	V_{RRM} , $T_J = 25^\circ\text{C}$
Typical Junction Capacitance per leg	C_J 890pF	$V_R = 5.0\text{V}$, $T_J = 25^\circ\text{C}$

*Pulse test: Pulse width 300 μsec , 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 175°C
Max thermal resistance per leg	$R_{\theta JC}$	1.8°C/W
Max thermal resistance per pkg.	$R_{\theta JC}$	0.9°C/W
Mounting Torque		10 inch pounds maximum (4-40 screw)
Weight		.22 ounces (6.36 grams) typical



COLORADO

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2-3-00 Rev. 1

FST3040 — FST3050

Figure 1
Typical Forward Characteristics — Per Leg

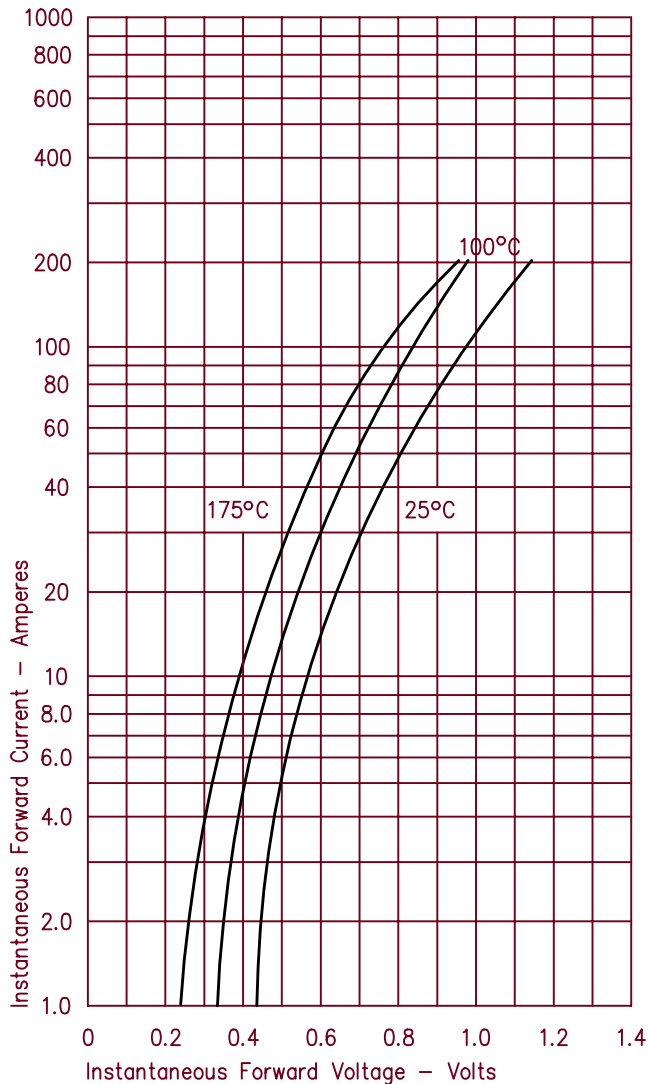


Figure 3
Typical Junction Capacitance — Per Leg

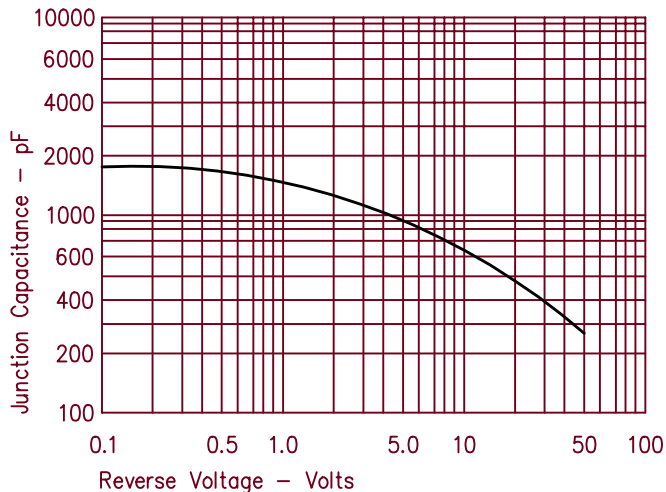


Figure 4
Forward Current Derating — Per Leg

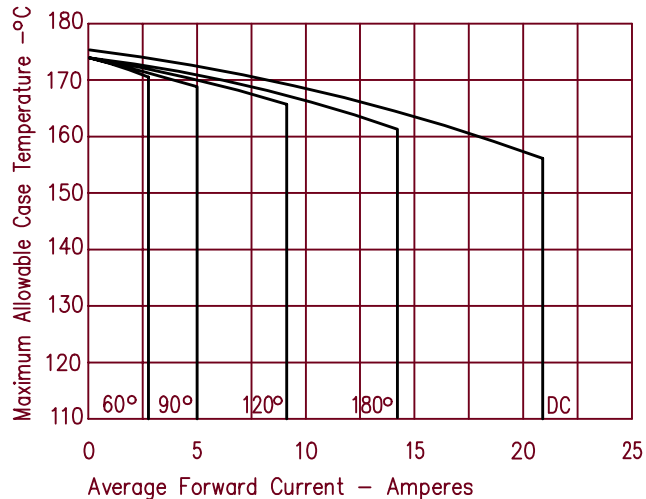


Figure 2
Typical Reverse Characteristics — Per Leg

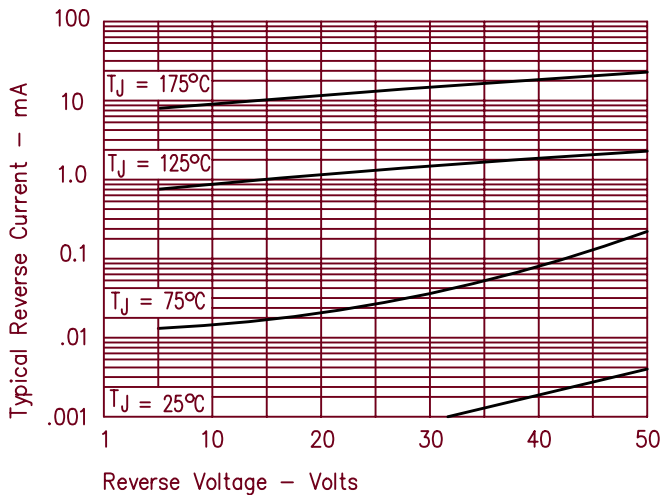


Figure 5
Maximum Forward Power Dissipation — Per Leg

