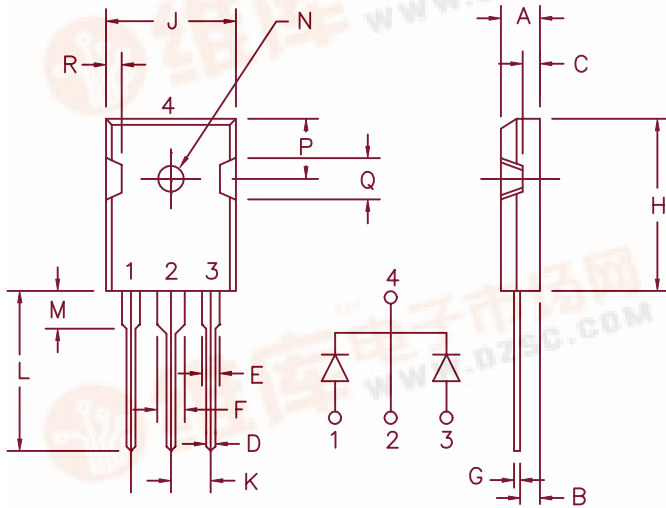


50Amp Schottky Barrier Rectifier

FST5035 — FST5050

查询FST5035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

Repetitive Peak Reverse Voltage

Transient Peak Reverse Voltage

FST5035
FST5040
FST5045
FST5050

35V
40V
45V
50V

35V
40V
45V
50V

- Guard ring for reverse protection
- Low power loss, high efficiency
- High surge capacity
- 175°C Junction Temperature
- V_{RRM} 35 to 50 Volts

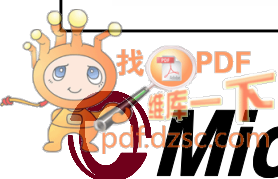
Electrical Characteristics

Average Forward Current per pkg.	$I_{F(AV)}$ 50 Amps	$T_C = 142^\circ\text{C}$, Square wave, $R_{\theta JC} = 1.0^\circ\text{C/W}$
Average Forward Current per leg	$I_{F(AV)}$ 25 Amps	$T_C = 142^\circ\text{C}$, Square wave, $R_{\theta JC} = 2.0^\circ\text{C/W}$
Maximum Surge Current per leg	I_{FSM} 400 Amps	8.3ms, half sine, $T_J = 175^\circ\text{C}$
Max. Peak Forward Voltage per leg	V_{FM} .50 Volts	$I_{FM} = 25\text{A}$, $T_J = 175^\circ\text{C}^*$
Max. Peak Forward Voltage per leg	V_{FM} .67 Volts	$I_{FM} = 25\text{A}$, $T_J = 25^\circ\text{C}^*$
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 1400 pF	$V_R = 5.0\text{V}$, $T_J = 25^\circ\text{C}$

*Pulse test: Pulse width 300 usec. Duty Cycle 2%

Thermal and Mechanical Characteristics

Storage temp range	T_{STG}	-55°C to $+175^\circ\text{C}$
Operating junction temp range	T_J	-55°C to $+175^\circ\text{C}$
Max thermal resistance per leg	$R_{\theta JC}$	2.0°C/W
Max thermal resistance per pkg.	$R_{\theta JC}$	1.0°C/W
Weight		.22 ounces (6.36 grams) typical



COLORADO

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FAX: (303) 466-3775

2-4-00 Rev. 1

FST5035 — FST5050

Figure 1
Typical Forward Characteristics — Per Leg

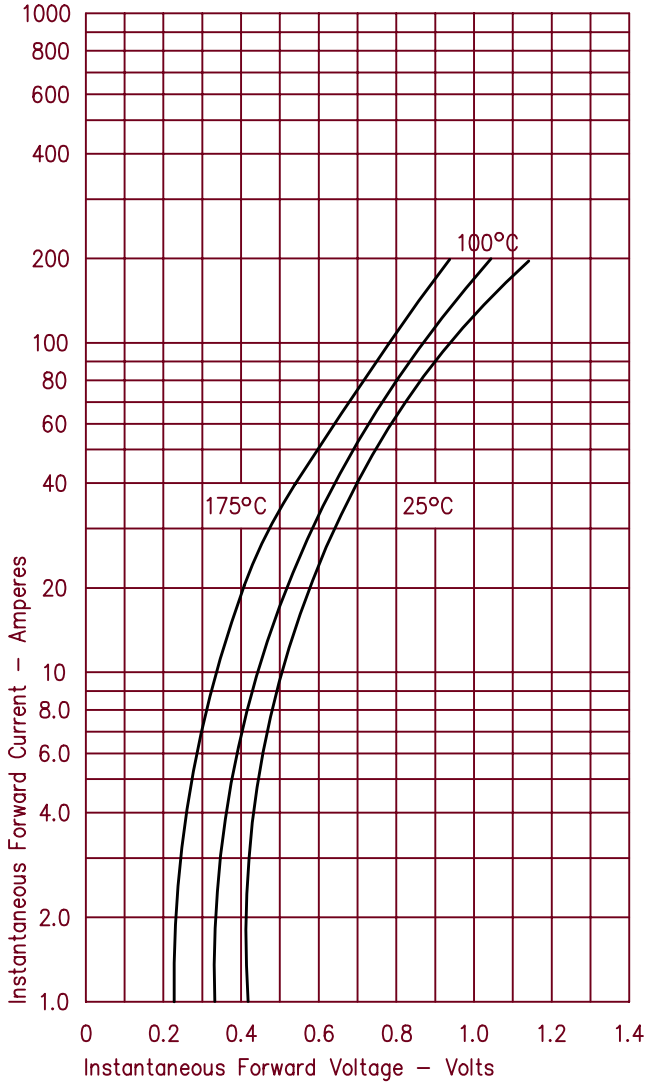


Figure 3
Typical Junction Capacitance — Per Leg

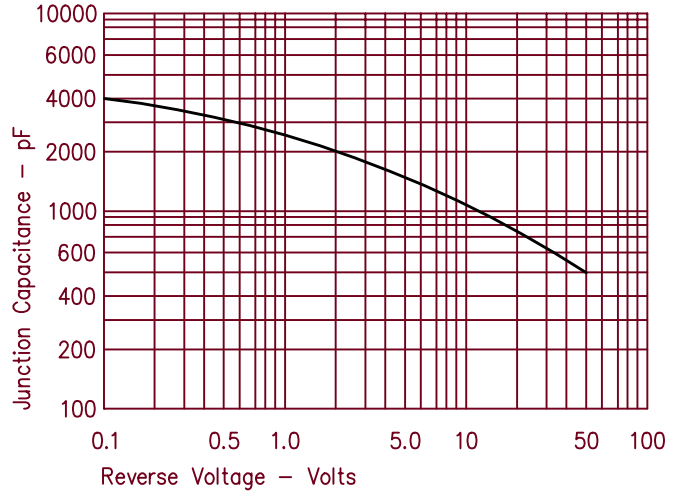


Figure 4
Forward Current Derating — Per Leg

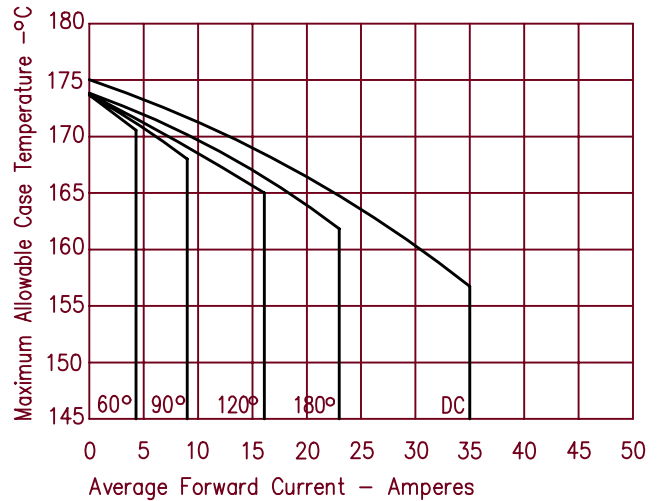


Figure 2
Typical Reverse Characteristics — Per Leg

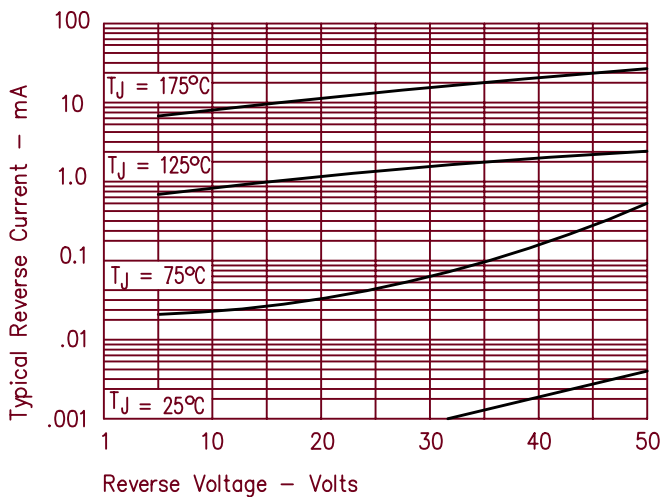


Figure 5
Maximum Forward Power Dissipation — Per Leg

