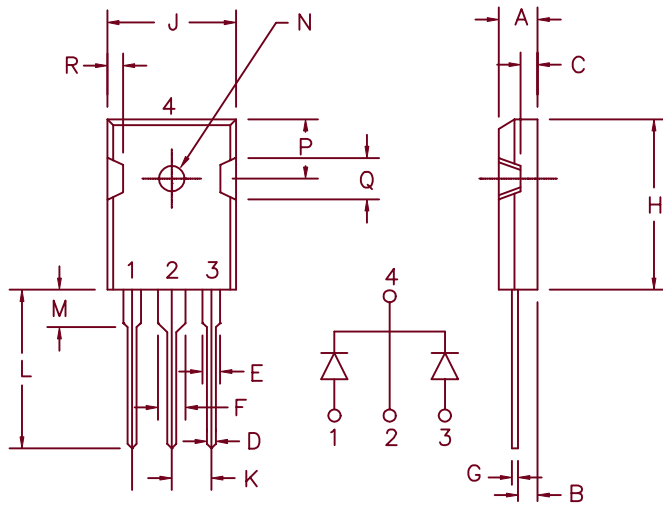


30Amp Schottky Barrier Rectifier FST3340 — FST3345



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
FST3340	40V	40V
FST3345	45V	45V

- Schottky Barrier Rectifier
- Guard ring for reverse protection
- Low power loss, high efficiency
- High surge capacity
- VRRM 40 to 45 Volts

Electrical Characteristics

Average Forward Current per pkg.	I _{F(AV)} 30Amps	T _C = 118°C, Square wave, R _{θJC} = 0.9°C/W
Average Forward Current per leg	I _{F(AV)} 15Amps	T _C = 118°C, Square wave, R _{θJC} = 1.8°C/W
Maximum Surge Current per leg	I _{FSM} 300 Amps	8.3ms, half sine, T _J = 150°C
Max. Peak Forward Voltage per leg	V _{FM} .46 Volts	I _{FM} = 15A, T _J = 150°C*
Max. Peak Forward Voltage per leg	V _{FM} .52 Volts	I _{FM} = 15A, T _J = 25°C*
Max. Peak Reverse Current per leg	I _{RM} 15 mA	V _R = 5.0V, T _J = 125°C*
Max. Peak Reverse Current per leg	I _{RM} 2 mA	V _R = 5.0V, T _J = 25°C
Typical Junction Capacitance per leg	C _J 780pF	

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

Thermal and Mechanical Characteristics

Storage temp range	T _{STG}	-55°C to 150°C
Operating junction temp range	T _J	-55°C to 150°C
Max thermal resistance per leg	R _{θJC}	1.8°C/W
Max thermal resistance per pkg.	R _{θJC}	0.9°C/W
Mounting Torque		10 inch pounds maximum (4-40 screw)
Weight		.22 ounces (6.36 grams) typical

FST3340 — FST3345

Figure 1
Typical Forward Characteristics — Per Leg

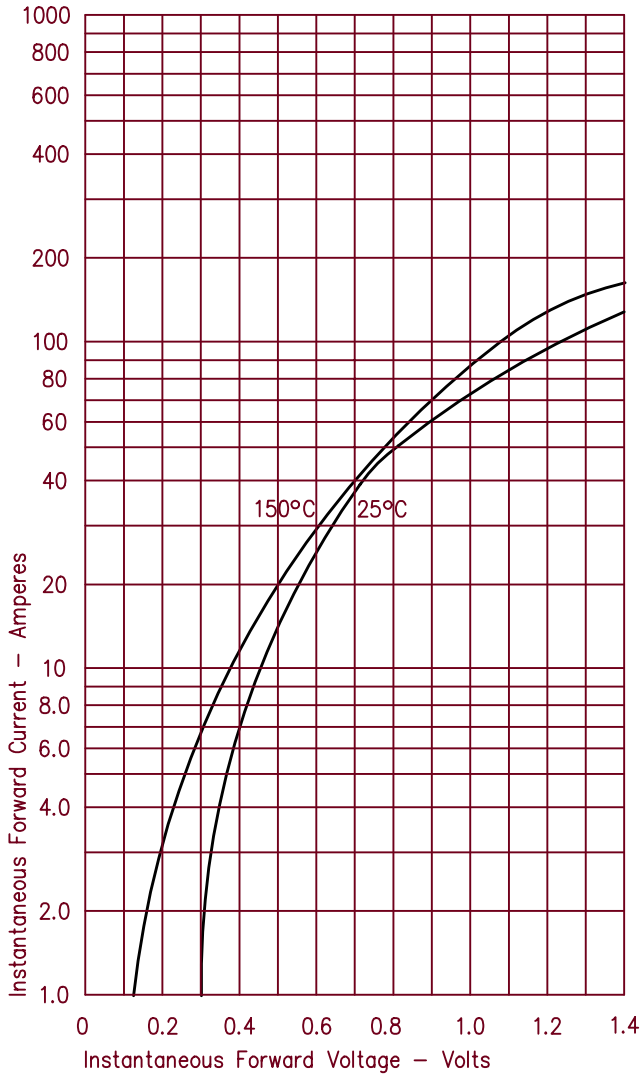


Figure 3
Typical Junction Capacitance — Per Leg

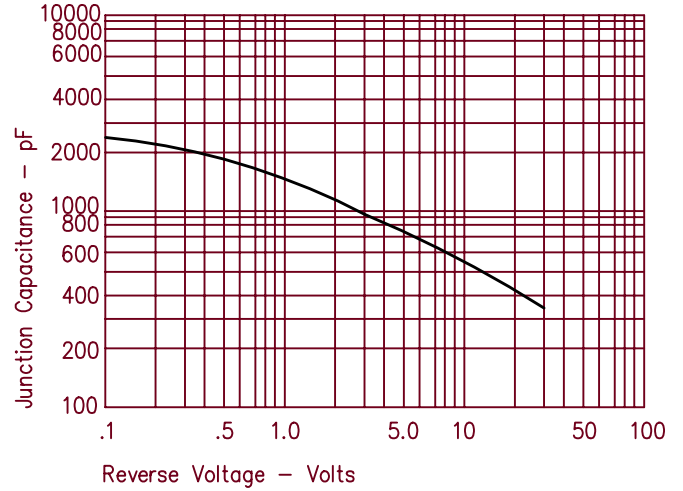


Figure 4
Forward Current Derating — Per Leg

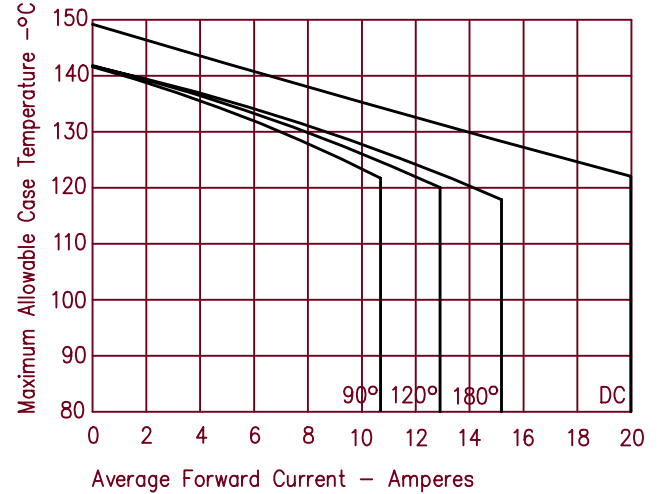


Figure 2
Typical Reverse Characteristics — Per Leg

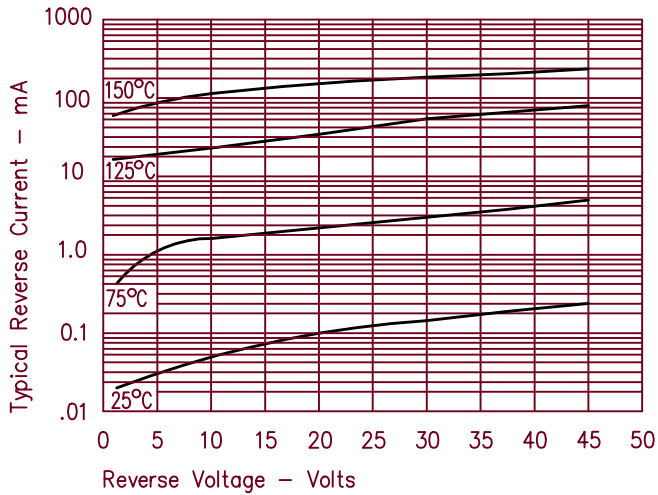


Figure 5
Maximum Forward Power Dissipation — Per Leg

