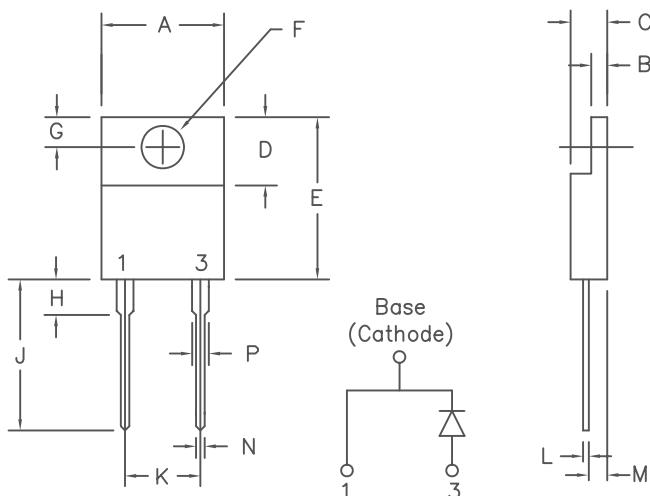


8 Amp Schottky Rectifiers

USD735 — USD745



Dim.	Millimeter			
	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	.155	3.53	3.94
G	.100	.120	2.54	3.05
H	---	.250	---	6.35
J	.500	.580	12.70	14.73
K	.190	.210	4.83	5.33
L	.014	.025	0.35	0.63
M	.080	.115	2.03	2.92
N	.028	.038	0.71	0.96
P	.045	.055	1.14	1.40

Similar to TO-220AC

Microsemi
Catalog Number

Industry
Part Number

Working
Reverse Voltage

35V
40V
45V

Peak
Reverse Voltage

35V
40V
45V

- Schottky Barrier Rectifier
- Guard Ring Protection
- Low Forward Voltage
- 150°C Junction Temperature
- Reverse Energy Tested

Electrical Characteristics

Average forward current	I F(AV) 8 Amps	T _C = 120°C Square wave, R _{θJC} = 2.5°C/W
Maximum surge current	I F(AV) 225 Amps	8.3 ms, half sine, T _J = 150°C
Max repetitive reverse current	I R(OV) 2 Amps	f = 1KHZ, 25°C, 1uS Square wave
Max peak forward voltage	V _{FM} .50 Volts	I _{FM} = 8A; T _J = 25°C*
Typical peak forward voltage	V _{FM} .33 Volts	I _{FM} = 8A; T _J = 150°C*
Max. peak reverse current	I _{RM} 2 mA	V _{RRM} , T _J = 25°C
Typical peak reverse current	I _{RM} 50 mA	V _{RRM} , T _J = 100°C*
Typical junction capacitance	C _J 575 pF	V _R = 5.0V, T _J = 25°C

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

Thermal and Mechanical Characteristics

Storage temperature range
Operating junction temp range
Maximum thermal resistance
Weight

T_{STG}
T_J
R_{θJC}

-55°C to 150°C
-55°C to 150°C
2.5°C/W Junction to Case
.08 ounces (2.3 grams) typical



8700 East Thomas Road, P.O. Box 1390
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FAX: (480) 947-1503
www.microsemi.com

05-31-07 Rev. 2

USD735 - USD745

Figure 1
Typical Forward Characteristic

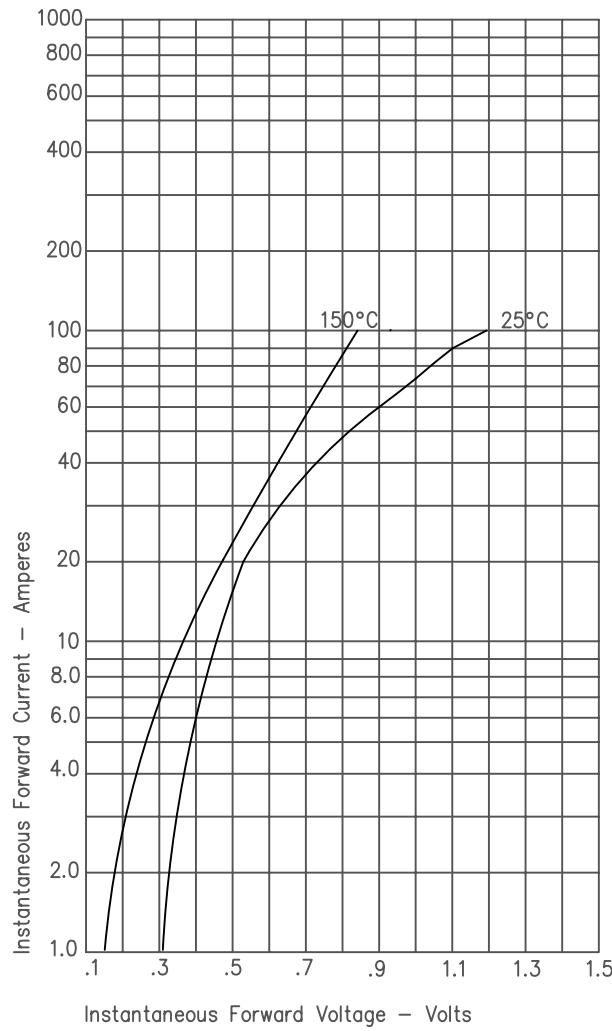


Figure 2
Typical Reverse Characteristics

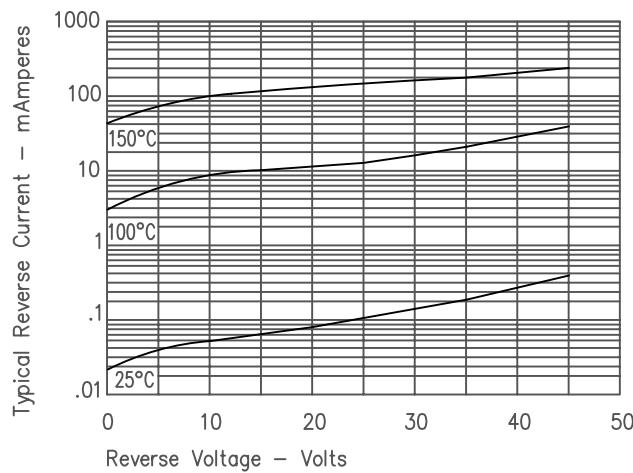


Figure 3
Typical Junction Capacitance

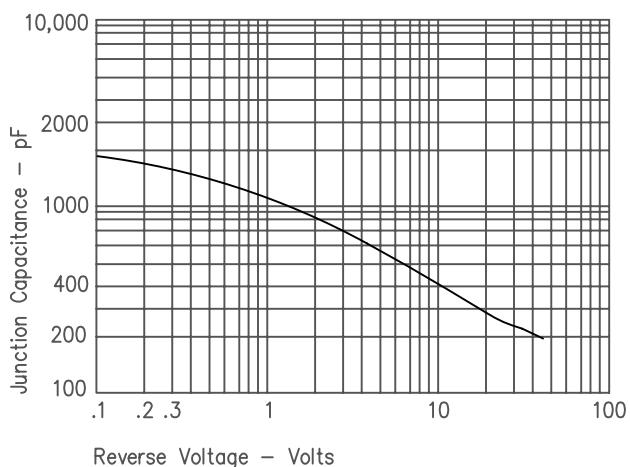


Figure 4
Forward Current Derating

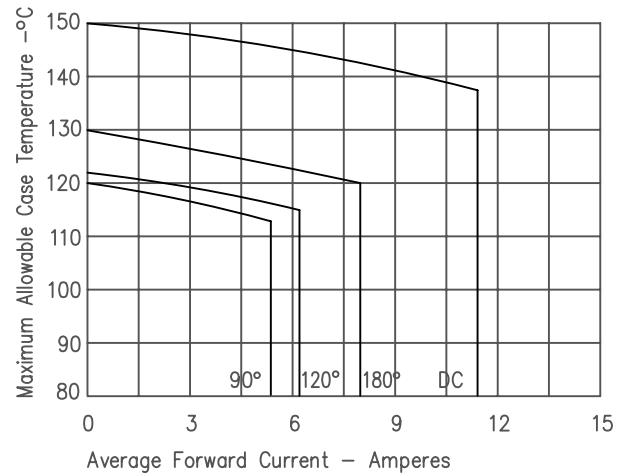


Figure 5
Maximum Forward Power Dissipation

