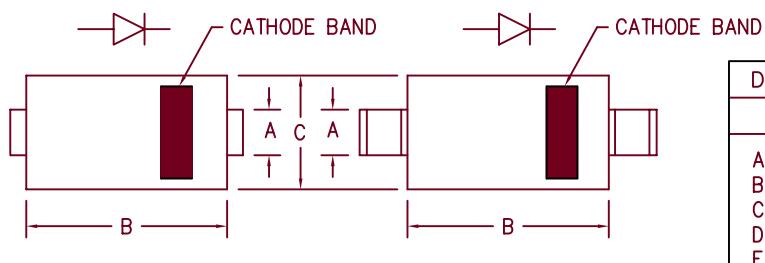
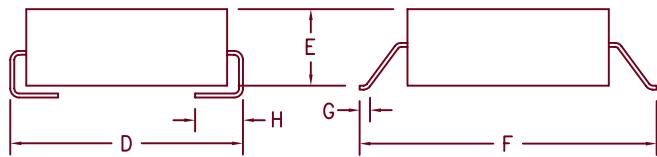


8 Amp Schottky Rectifier

LSM835 — LSM845



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.117	.123	2.97	3.12	
B	.260	.280	6.60	7.11	
C	.220	.245	5.59	6.22	
D	.307	.322	7.80	8.18	
E	.075	.095	1.91	2.41	
F	.380	.400	9.65	10.16	
G	.025	.040	.640	1.02	
H	.030	.060	.760	1.52	



Microsemi
Catalog Number

Working
Working Peak
Reverse Voltage

Repetitive
Repetitive Peak
Reverse Voltage

LSM835*
LSM840*
LSM845*

35V
40V
45V

35V
40V
45V

*Add Suffix J For J Lead or G For Gull Wing Lead Configuration

- Schottky Barrier Rectifier
- Guard Ring Protection
- Low Forward Voltage
- 150°C Junction Temperature
- V_{RRM} 35 to 45 Volts
- High Current Capability

Electrical Characteristics

Average forward current
Maximum surge current
Max peak forward voltage
Max peak forward voltage
Max peak reverse current
Typical junction capacitance

I_{F(AV)} 8.0 Amps
I_{F(AV)} 350 Amps
V_{FM} .40 Volts
V_{FM} .52 Volts
I_{RM} 2 mA
C_J 575 pF

Square wave
8.3 ms, half sine, T_J = 150°C
I_{FM} = 8.0A; T_J = 150°C *
I_{FM} = 8.0A; T_J = 25°C *
V_{RRM}, T_J = 25°C
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_{θJL}

-55°C to 175°C
-55°C to 150°C
20°C/W Junction to lead
.008 ounces (.22 grams) typical

 SCOTTSDALE
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05-17-07 Rev. 3

LSM835 – LSM845

Figure 1
Typical Forward Characteristic

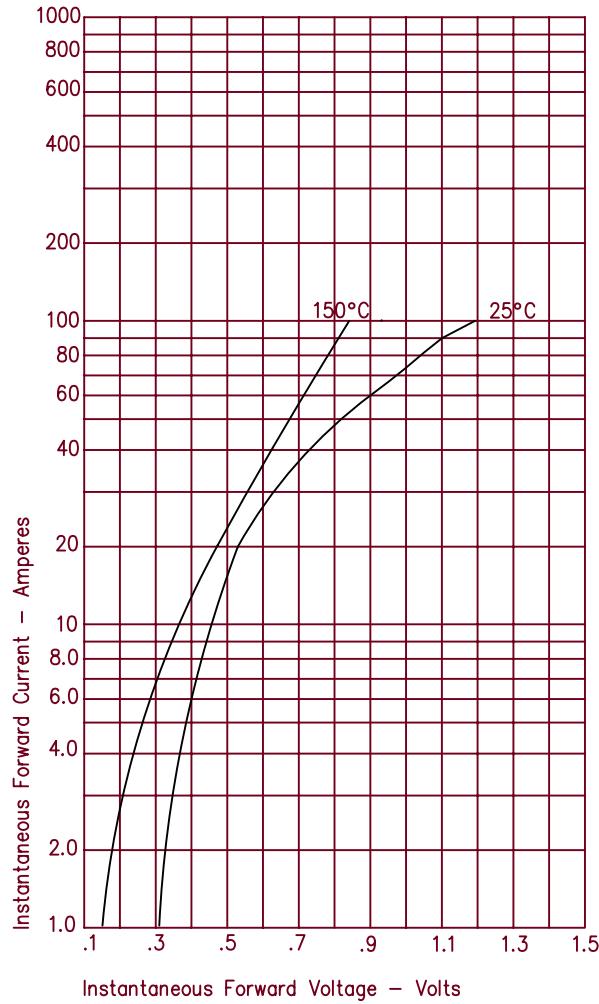


Figure 3
Typical Junction Capacitance

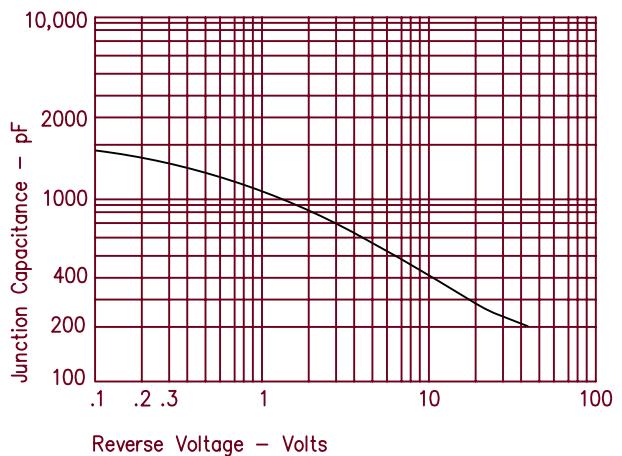


Figure 2
Typical Reverse Characteristics

