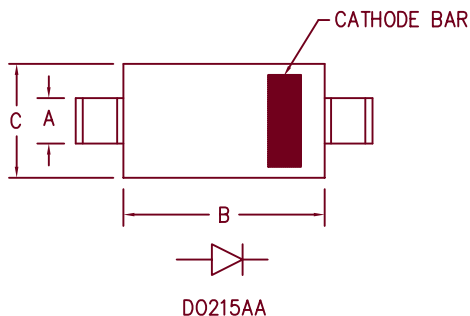
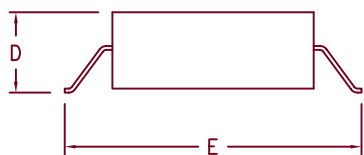


1 Amp Schottky Rectifier LSM140G — LSM150G



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.081	.087	2.06	2.21	
B	.160	.180	4.06	4.57	
C	.130	.155	3.30	3.94	
D	.077	.104	1.95	2.64	
E	.234	.256	5.95	6.50	



Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage	Device Marking
LSM140G	40V	40V	L140
LSM145G	45V	45V	L145
LSM150G	50V	50V	L150

- Low Forward Voltage
- Schottky Barrier Rectifier
- Guard Ring Protection
- 150°C Junction Temperature
- VRRM 40 to 50 Volts

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)} 1.0 Amps
I_{FSM} 50 Amps
V_{FM} .39 Volts
V_{FM} .58 Volts
I_{RM} 1.0 mA
C_J 60pF

T_A = 130°C, Square wave, R_{θJC} = 25°C/W
8.3ms, half sine, T_J = 150°C
I_{FM} = 0.1A: T_J = 25°C*
I_{FM} = 1.0A: 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
Typical thermal Resistance
Weight

T_{STG}
T_J
R_{θJC}

-55°C to 175°C
-55°C to 150°C
25°C/W Junction to case
.0047 ounces (.013 grams) typical



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05-15-07 Rev. 2

LSM140G — LSM150G

Figure 1
Maximum Forward Characteristics

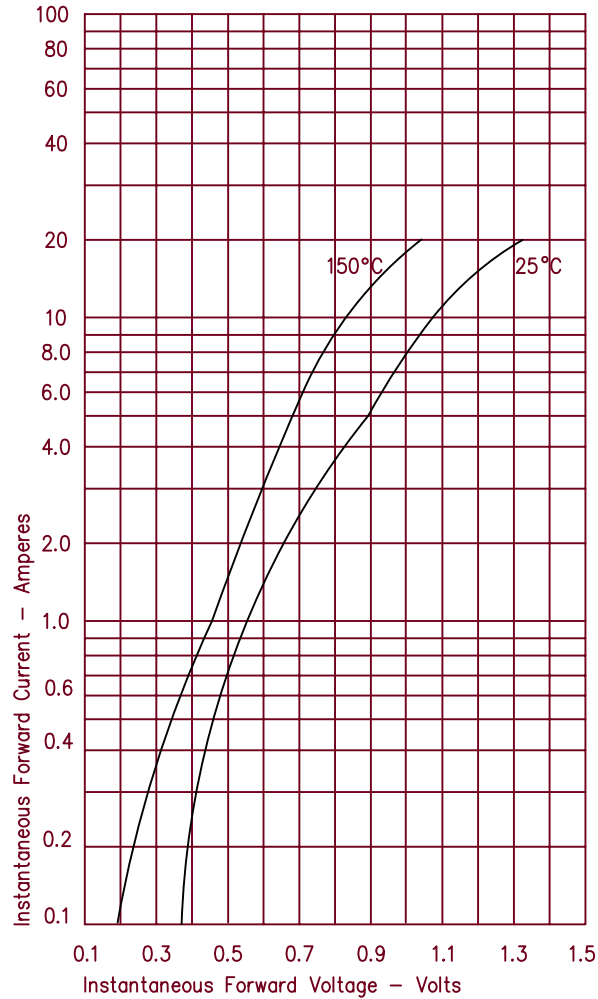


Figure 3
Typical Junction Capacitance

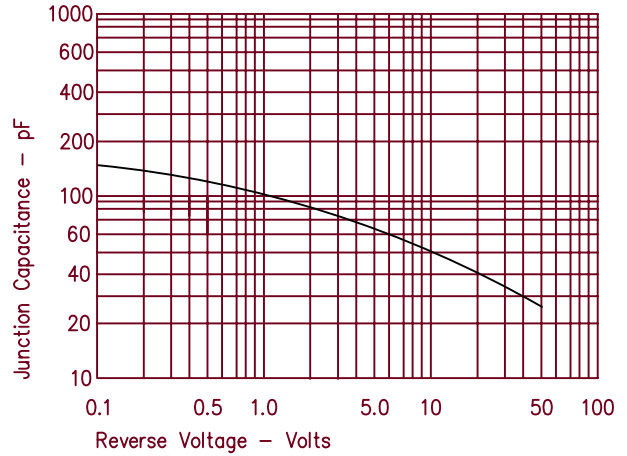


Figure 2
Typical Reverse Characteristics

