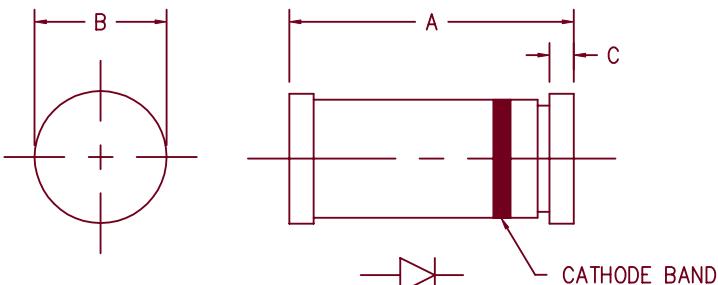


1 Amp Schottky Rectifier LSM140 — LSM150



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.189	.205	4.80	5.20	
B	.094	.105	2.39	2.66	Dia.
C	.016	.022	.41	.55	

GLASS HERMETIC D0213AB

Microsemi
Catalog Number

Working
Peak Reverse
Voltage

Repetitive
Peak Reverse
Voltage

Device
Marking

LSM140
LSM145
LSM150

40V
45V
50V

40V
45V
50V

L140
L145
L150

- Low Forward Voltage
- Schottky Barrier Rectifier
- Guard Ring Protection
- 150°C Junction Temperature
- VRM 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
CJ 60pF

T_A = 124°C, Square wave, R_{θJC} = 45°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

TSTG
T_J
R_{θJC}

-65°C to 150°C
-65°C to 150°C
45°C/W Junction to Case
.0047 ounces (.012 grams) typical

3-29-00 Rev. IR



COLORADO
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LSM140 - LSM150

Figure 1
Maximum Forward Characteristics

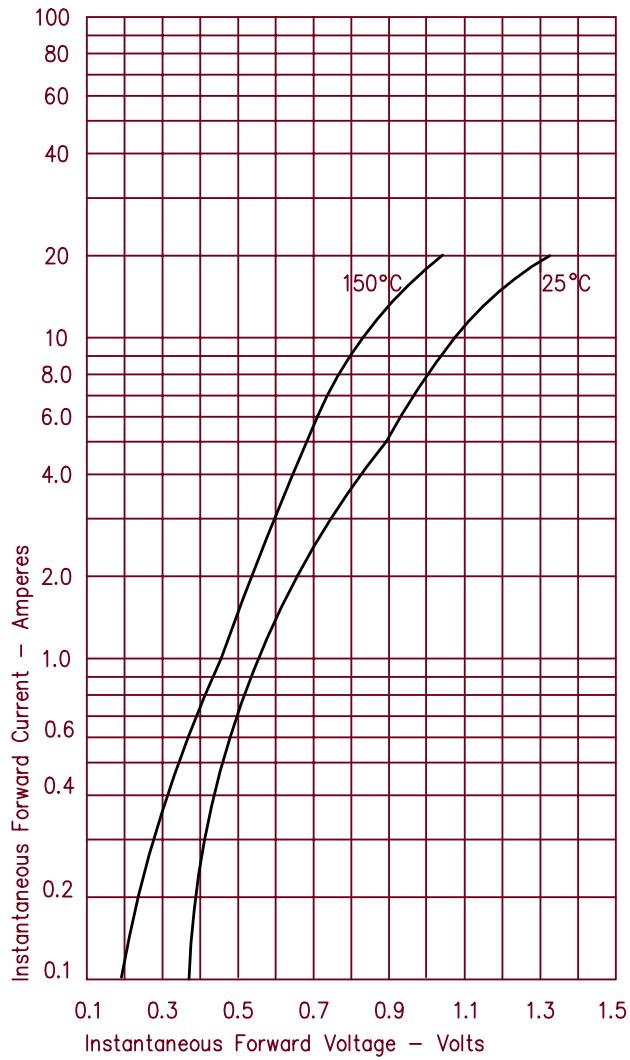


Figure 3
Typical Junction Capacitance

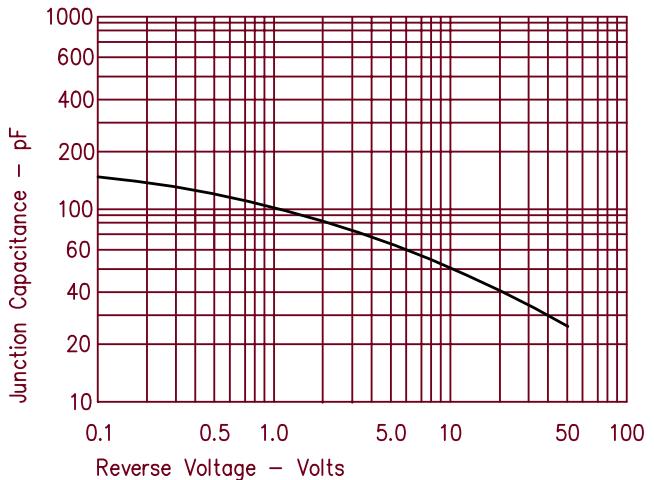


Figure 2
Typical Reverse Characteristics

