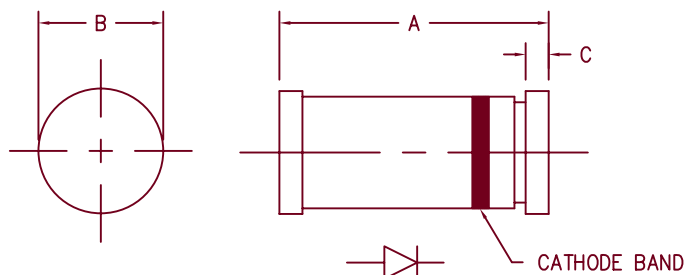


1 Amp Schottky Rectifier LSM140 — LSM150



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

GLASS HERMETIC D0213AB

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage	Device Marking
LSM140	40V	40V	L140
LSM145	45V	45V	L145
LSM150	50V	50V	L150

- Low Forward Voltage
- Schottky Barrier Rectifier
- Guard Ring Protection
- 150°C Junction Temperature
- V_{RRM} 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

$T_A = 124^\circ\text{C}$, Square wave, $R_{\theta JC} = 45^\circ\text{C/W}$
8.3ms, half sine, $T_J = 150^\circ\text{C}$
 $I_{FM} = 0.1A: T_J = 25^\circ\text{C}^*$
 $I_{FM} = 1.0A: T_J = 25^\circ\text{C}^*$
 $V_{RRM}, T_J = 25^\circ\text{C}$
 $V_R = 5.0V, T_J = 25^\circ\text{C}$

*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
 $R_{\theta JC}$

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



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05-15-07 Rev. 1

LSM140 — LSM150

Figure 1
Maximum Forward Characteristics

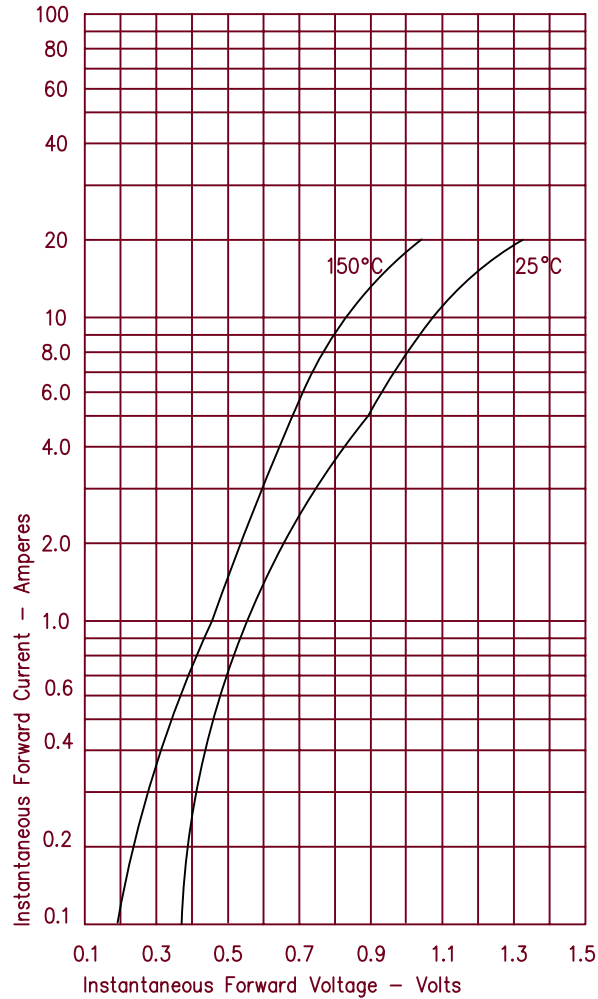


Figure 3
Typical Junction Capacitance

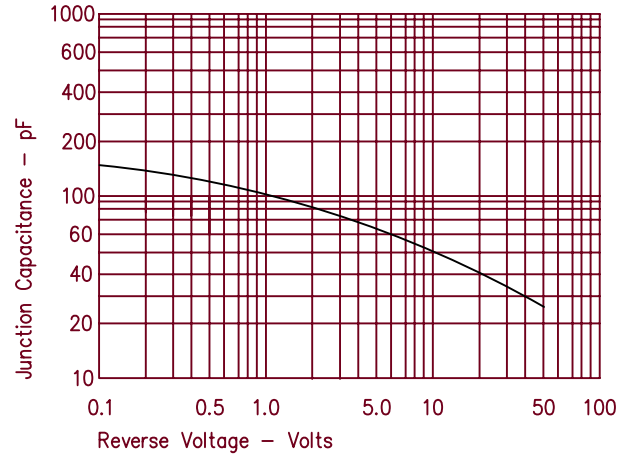


Figure 2
Typical Reverse Characteristics

