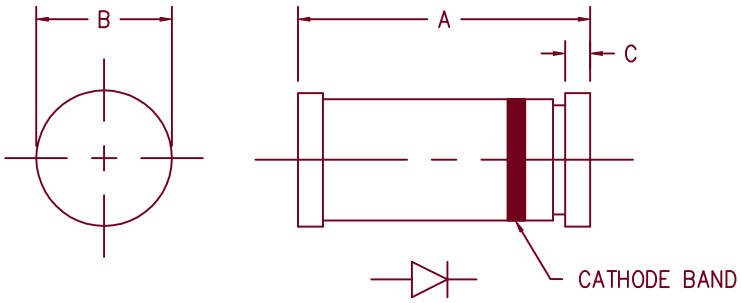
1 Amp Schottky Rectifier
LSM140 – LSM150



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

GLASS HERMETIC DO213AB

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	$I_{F(AV)}$ 1.0 Amps	T_A = 124°C, Square wave, $R_{\theta JC}$ = 45°C/W
Maximum surge current	I_{FSM} 50 Amps	8.3ms, half sine, T_J = 150°C
Max peak forward voltage	V_{FM} .39 Volts	I_{FM} = 0.1A; T_J = 25°C*
Max peak forward voltage	V_{FM} .58 Volts	I_{FM} = 1.0A; T_J = 25°C*
Max peak reverse current	I_{RM} 1.0 mA	V_{RRM}, T_J = 25°C
Typical junction capacitance	C_J 60pF	V_R = 5.0V, T_J = 25°C

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

Thermal and Mechanical Characteristics

Storage temperature range	T_{STG}	−65°C to 150°C
Operating junction temp range	T_J	−65°C to 150°C
Typical thermal Resistance	$R_{\theta JC}$	45°C/W Junction to Case
Weight		.0047 ounces (.012 grams) typical

3–29–00 Rev. IR

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Figure 1
Maximum Forward Characteristics

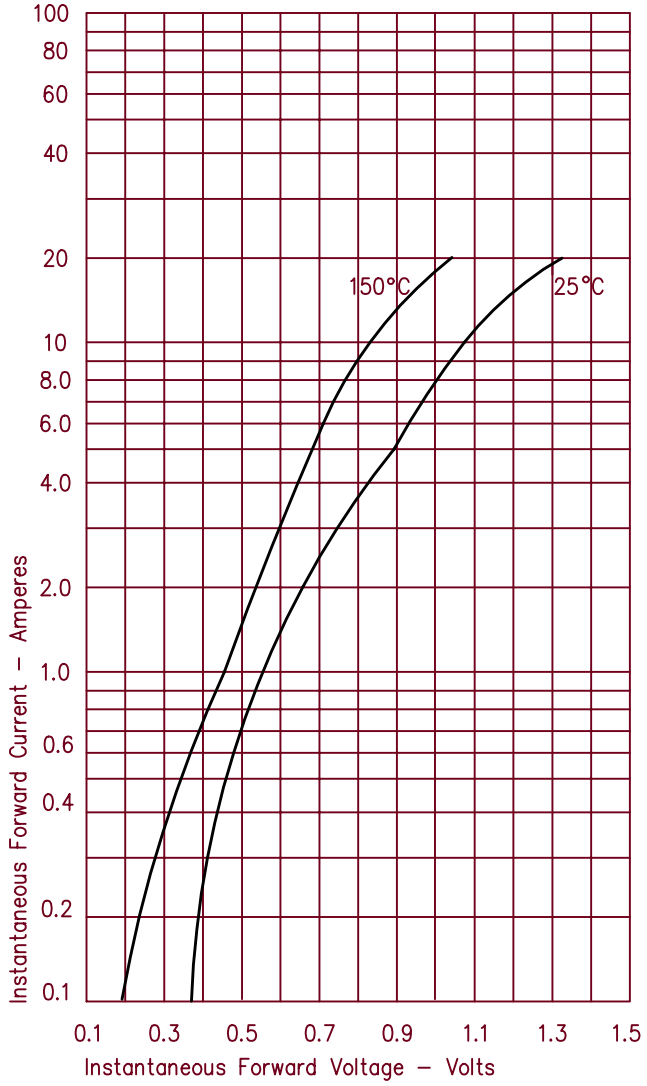

Figure 2
Typical Reverse Characteristics

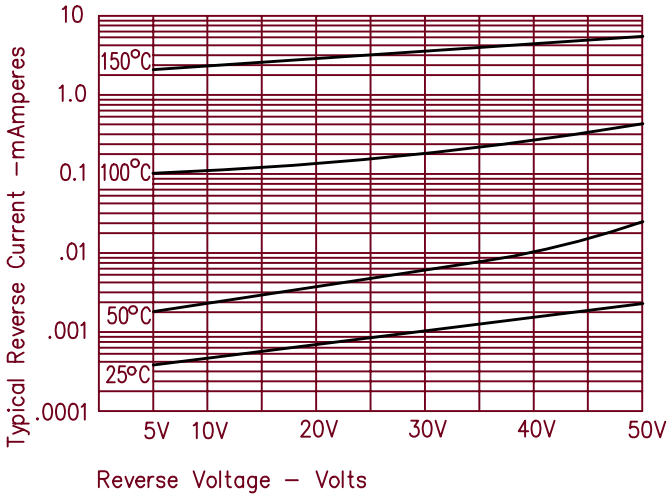

Figure 3
Typical Junction Capacitance