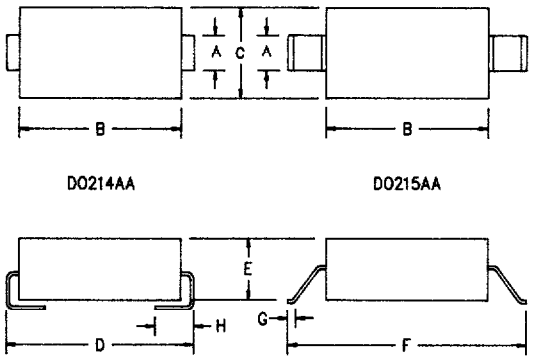
1 Amp Schottky Rectifier
LSM140*, 145*, 150*

C



Dim.	Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
A	.081	.087	2.06	2.21	
B	.160	.180	4.06	4.57	
C	.130	.155	3.30	3.94	
D	.205	.220	5.21	5.59	
E	.075	.095	1.90	2.41	
F	.270	.290	6.86	7.37	
G	.015	.030	.381	.762	
H	.030	.060	.760	1.52	

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
LSM140*	40V	40V
LSM145*	45V	45V
LSM150*	50V	50V

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

- 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 = 130 C, Square wave, $R_{\theta JC}$ = 30°C/W
Maximum surge current	I_{FSM} 75 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}	−40°C to 175°C
Operating junction temp range	T_J	−40°C to 150°C
Typical thermal Resistance	$R_{\theta JC}$	30°C/W Junction to Case
Weight		.0047 ounces (.013 grams) typical

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Microsemi Corp.
Colorado

LSM140*, 145*, 150*

Figure 1
Maximum Forward Characteristics

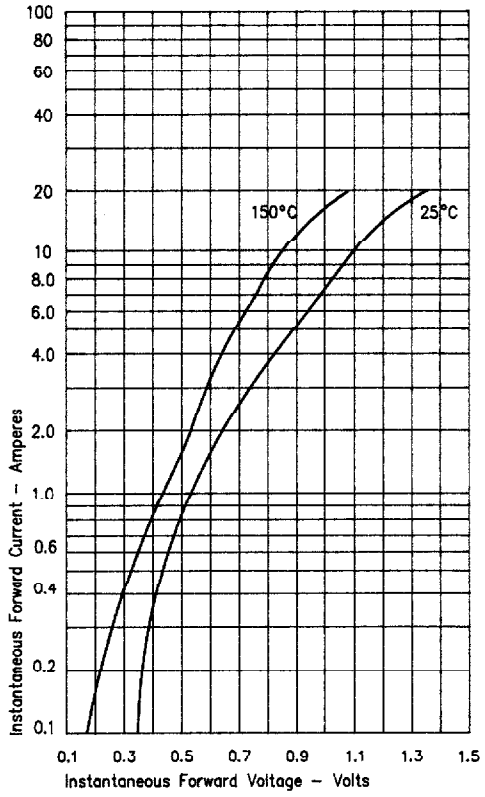

Figure 2
Typical Reverse Characteristics

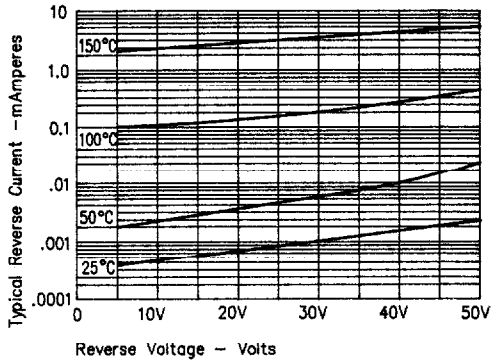

Figure 3
Typical Junction Capacitance