1 Amp Schottky Rectifier
LSM140G – LSM150G

CATHODE BAR

DO215AA
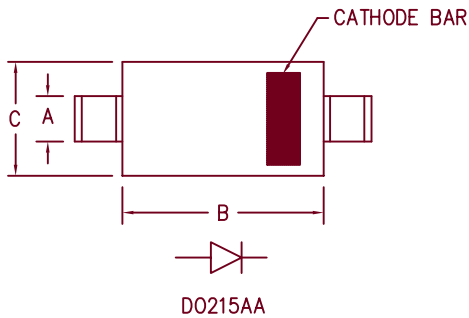
Dim.	Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
A	.081	.087	2.06	2.21	
B	.160	.180	4.06	4.57	
C	.130	.155	3.30	3.94	
D	.077	.104	1.95	2.64	
E	.234	.256	5.95	6.50	
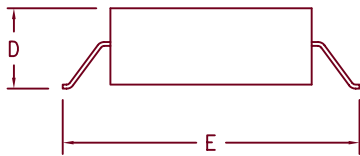
Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage	Device Marking
LSM140G	40V	40V	L140
LSM145G	45V	45V	L145
LSM150G	50V	50V	L150

- Low Forward Voltage
- Schottky Barrier Rectifier
- Guard Ring Protection
- 150°C Junction Temperature
- V_{RRM} 40 to 50 Volts

Electrical Characteristics

Average forward current	$I_{F(AV)}$ 1.0 Amps	T_A = 130°C, Square wave, $R_{\theta JC}$ = 25°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}	−55°C to 175°C
Operating junction temp range	T_J	−55°C to 150°C
Typical thermal Resistance	$R_{\theta JC}$	25°C/W Junction to case
Weight		.0047 ounces (.013 grams) typical

LSM140G — LSM150G

Figure 1
Maximum Forward Characteristics

Instantaneous Forward Current — Amperes vs Instantaneous Forward Voltage — Volts

150°C   25°C
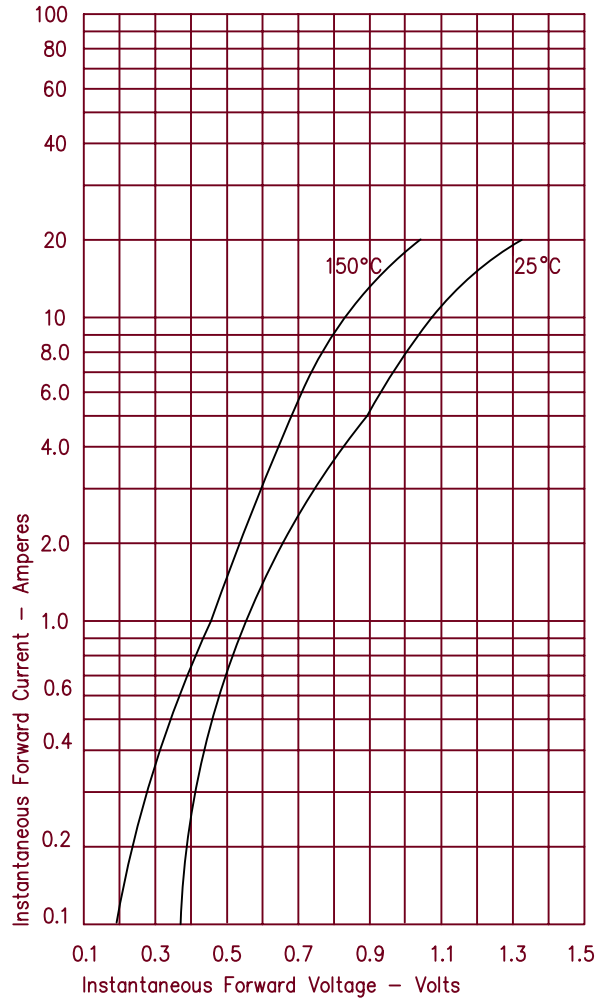
Figure 3
Typical Junction Capacitance

Junction Capacitance — pF vs Reverse Voltage — Volts

Figure 2
Typical Reverse Characteristics

Typical Reverse Current — mAmperes vs Reverse Voltage — Volts

150°C
100°C
50°C
25°C

05—15—07 Rev. 2
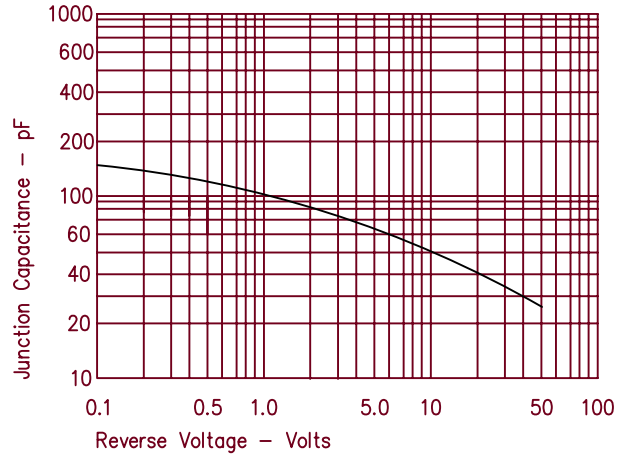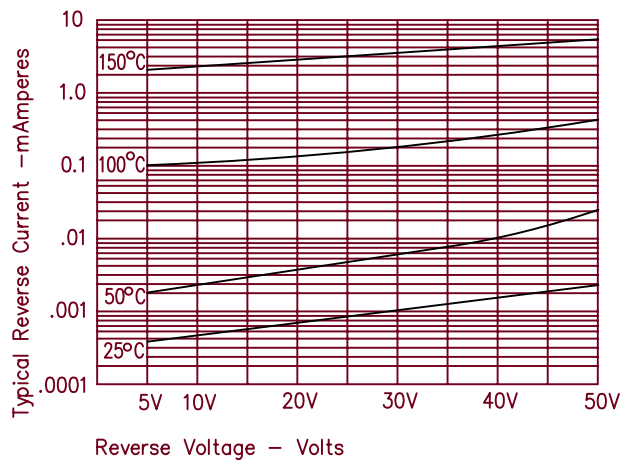
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