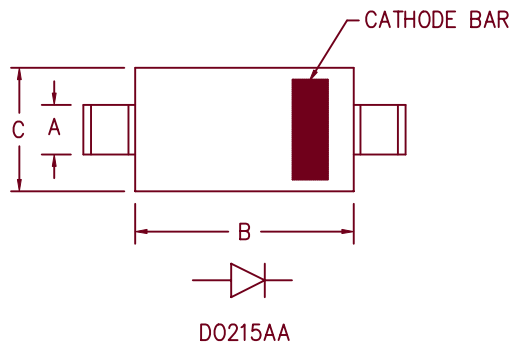
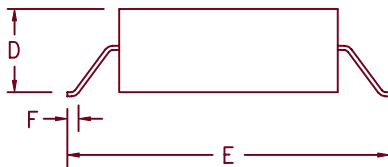


# 1 Amp Schottky Rectifier LSM140G — LSM150G



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



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
- VRRM 40 to 50 Volts

## Electrical Characteristics

Average forward current	$I_F(AV)$ 1.0 Amps	$T_A = 130^\circ\text{C}$ , Square wave, $R_{\theta JC} = 25^\circ\text{C/W}$
Maximum surge current	$I_{FSM}$ 50 Amps	8.3ms, half sine, $T_J = 150^\circ\text{C}$
Max peak forward voltage	VFM .39 Volts	$I_{FM} = 0.1\text{A}; T_J = 25^\circ\text{C}^*$
Max peak forward voltage	VFM .58 Volts	$I_{FM} = 1.0\text{A}; T_J = 25^\circ\text{C}^*$
Max peak reverse current	IRM 1.0 mA	$V_{RRM}, T_J = 25^\circ\text{C}$
Typical junction capacitance	$C_J$ 60pF	$V_R = 5.0\text{V}, T_J = 25^\circ\text{C}$

\*Pulse test: Pulse width 300  $\mu\text{sec}$ . Duty cycle 2%

## Thermal and Mechanical Characteristics

Storage temperature range	TSTG	-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

3-31-00 Rev. IR

# LSM140G — LSM150G

Figure 1  
Maximum Forward Characteristics

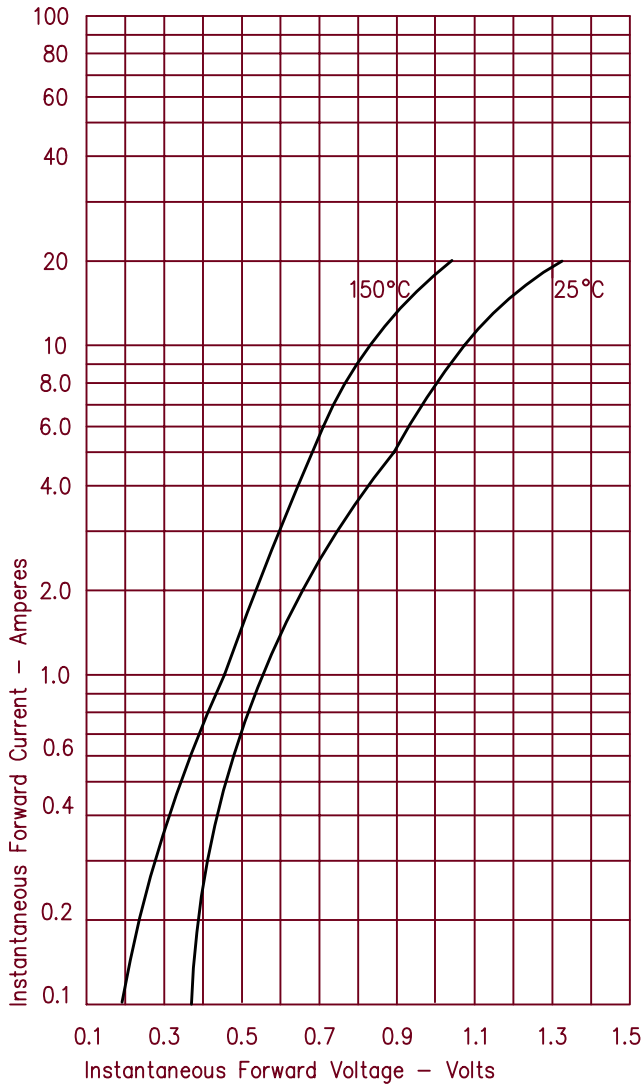


Figure 3  
Typical Junction Capacitance

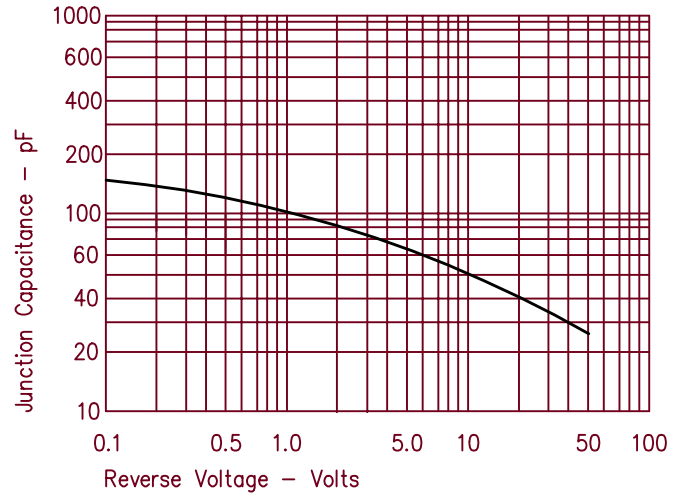


Figure 2  
Typical Reverse Characteristics

