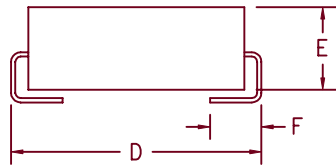
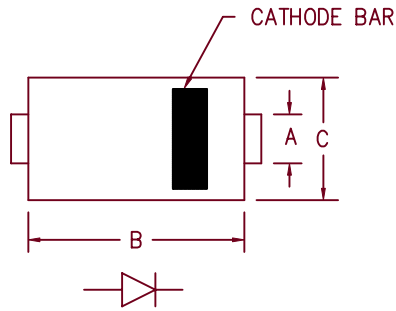


# 1 Amp Schottky Rectifier LSM140J — LSM150J



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.073	.087	1.85	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	.130	1.91	3.30	
F	.030	.060	.760	1.52	

## DO-214BA Package

Microsemi Catalog Number	Industry Part Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
LSM140J	10BQ040 10MQ040N MBRA140TR, MBRS140TR	40V	40V
LSM145J		45V	45V
LSM150J		50V	50V

- 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	$T_A = 130^\circ\text{C}$ , Square wave, $R_{\theta JC} = 15^\circ\text{C/W}$
Maximum surge current	$I_{FSM}$ 50 Amps	8.3ms, half sine, $T_J = 150^\circ\text{C}$
Max peak forward voltage	$V_{FM}$ .39 Volts	$I_{FM} = 0.1\text{A}; T_J = 25^\circ\text{C}^*$
Max peak forward voltage	$V_{FM}$ .58 Volts	$I_{FM} = 1.0\text{A}; T_J = 25^\circ\text{C}^*$
Max peak reverse current	$I_{RM}$ 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	$T_{STG}$	-55°C to 175°C
Operating junction temp range	$T_J$	-55°C to 150°C
Typical thermal Resistance	$R_{\theta JC}$	15°C/W Junction to case
Weight		.0047 ounces (.013 grams) typical

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# LSM140J — LSM150J

Figure 1  
Maximum Forward Characteristics

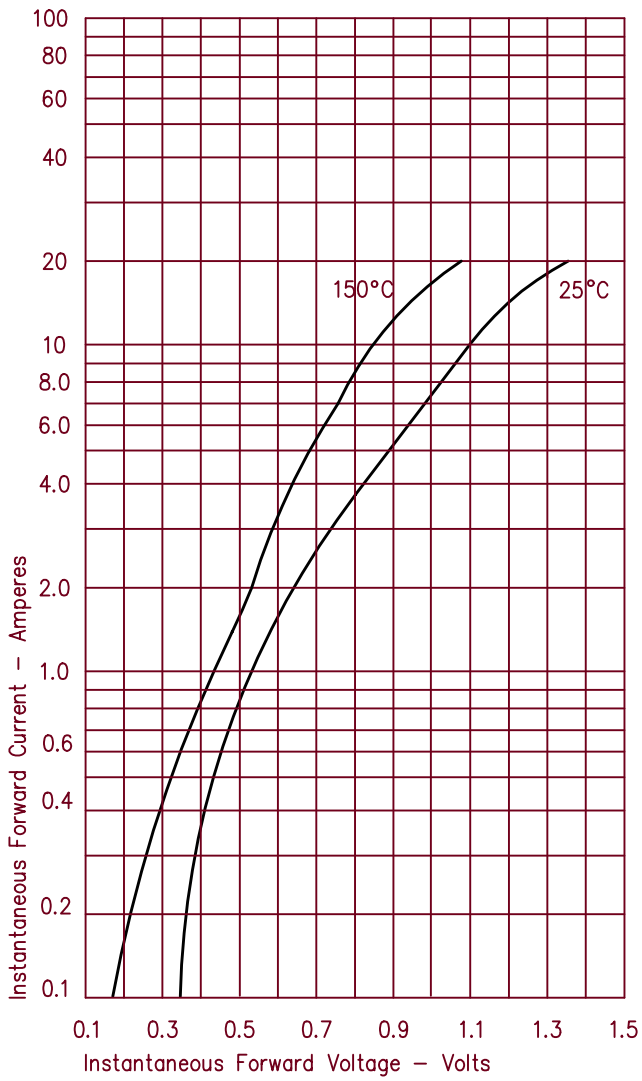


Figure 3  
Typical Junction Capacitance

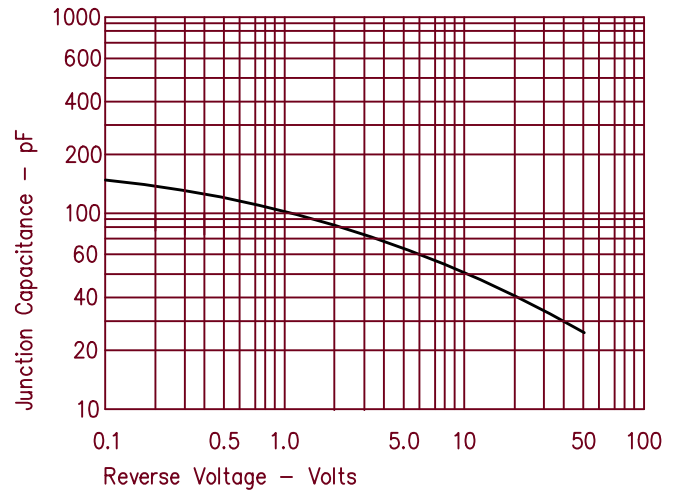
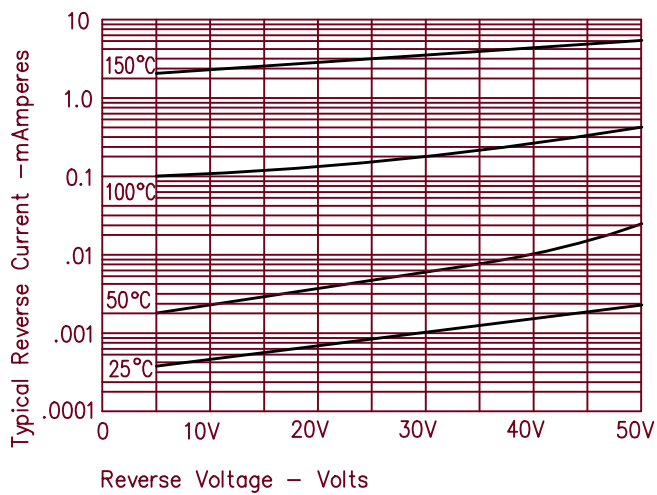


Figure 2  
Typical Reverse Characteristics



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Datasheets for electronics components.