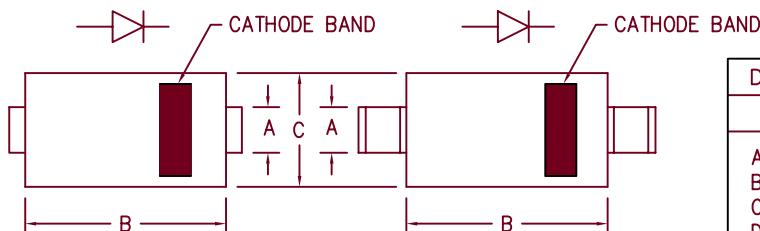
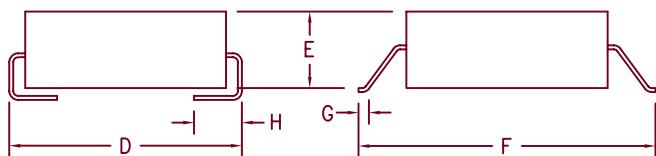


# 5 Amp Schottky Rectifier

## LSM535 — LSM545



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.117	.123	2.97	3.12	
B	.260	.280	6.60	7.11	
C	.220	.245	5.59	6.22	
D	.307	.322	7.80	8.18	
E	.075	.095	1.91	2.41	
F	.380	.400	9.65	10.16	
G	.025	.040	.640	1.02	
H	.030	.060	.760	1.52	



Microsemi Catalog Number	Industry Part Number	Working Reverse Voltage	Peak Reverse Voltage	Repetitive Peak Reverse Voltage
LSM535*	SK52L, B520C SK53L, B530C	35V		35V
LSM540*	SK54L, B540C	40V		40V
LSM545*	SK545L	45V		45V

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

- Schottky Barrier Rectifier
- Guard Ring for Reverse Protection
- Low power loss, High efficiency
- $V_{RRM}$  35 to 45 Volts
- Reverse Energy Tested

### Electrical Characteristics

Average forward current	I <sub>F(AV)</sub> 5 Amps	Square wave
Maximum surge current	I <sub>FSM</sub> 250 Amps	8.3ms, half sine, T <sub>J</sub> = 150°C
Max peak forward voltage	V <sub>FM</sub> .42 Volts	I <sub>FM</sub> = 5A; T <sub>J</sub> = 150°C*
Max peak forward voltage	V <sub>FM</sub> .52 Volts	I <sub>FM</sub> = 5A; T <sub>J</sub> = 25°C*
Max peak reverse current	I <sub>RM</sub> 500 mA	V <sub>RRM</sub> , T <sub>J</sub> = 125°C*
Max peak reverse current	I <sub>RM</sub> 2 mA	V <sub>RRM</sub> , T <sub>J</sub> = 25°C
Typical junction capacitance	C <sub>J</sub> 380 pF	V <sub>R</sub> = 5.0V, T <sub>J</sub> = 25°C

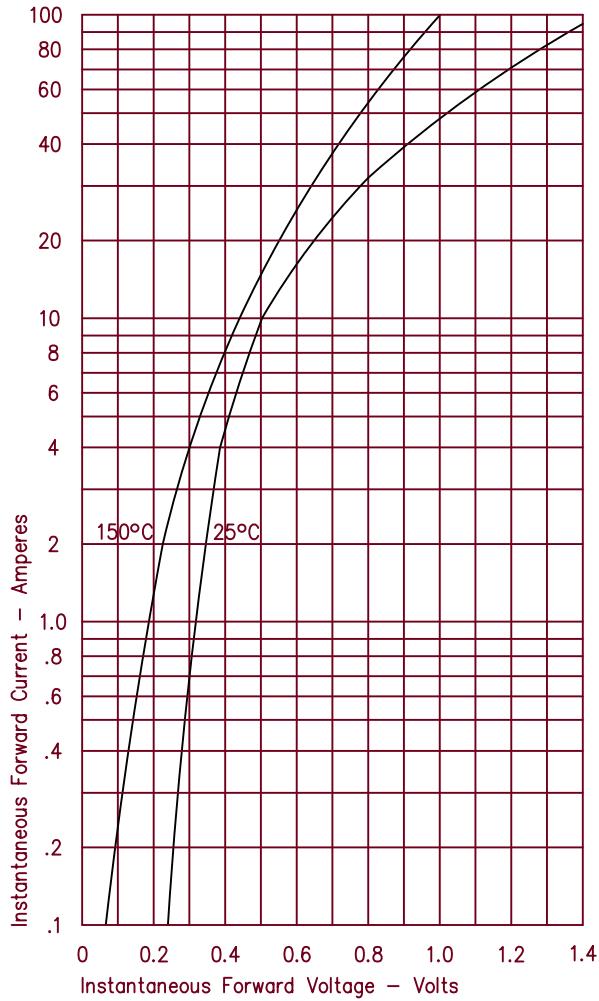
\*Pulse test: Pulse width 300  $\mu$ sec, Duty cycle 2%

### Thermal and Mechanical Characteristics

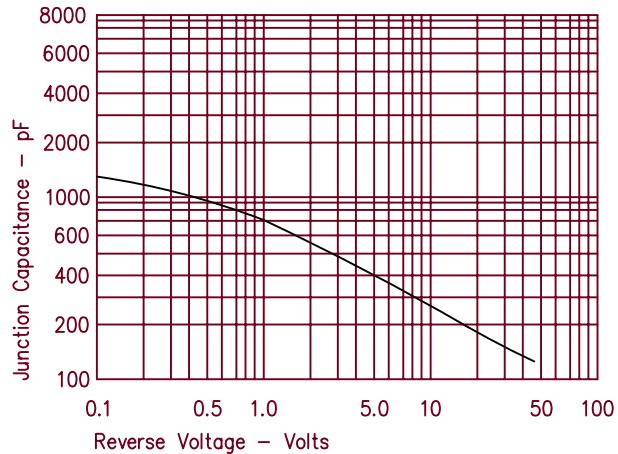
Storage temperature range	T <sub>STG</sub>	-55°C to 175°C
Operating junction temp range	T <sub>J</sub>	-55°C to 150°C
Maximum thermal resistance	R <sub>θJL</sub>	22°C Junction to lead
Weight		.008 ounces (.22 grams) typical

# LSM535 – LSM545

**Figure 1**  
Typical Forward Characteristics



**Figure 3**  
Typical Junction Capacitance



**Figure 2**  
Typical Reverse Characteristics

