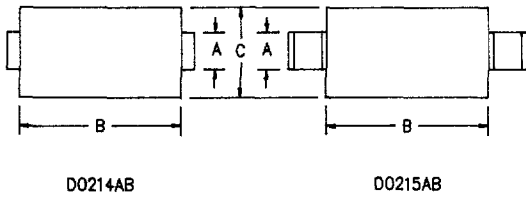
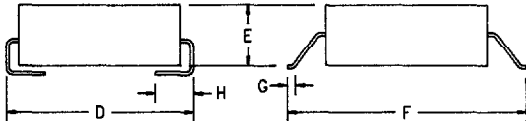


# 5 Amp Schottky Rectifier LSM535, 540, 545



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.117	.123	2.21	2.97	
B	.260	.280	4.57	6.60	
C	.220	.245	3.94	5.58	
D	.307	.322	5.59	7.80	
E	.075	.095	1.90	2.41	
F	.380	.400	6.86	7.37	
c	.025	.040	.381	.762	
H	.030	.060	.760	1.52	



Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
LSM535*	35V	35V
LSM540*	40V	40V
LSM545*	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
- VRRM 45 Volts Maximum
- Reverse Energy Tested

Electrical Characteristics		
Average forward current	I <sub>F(AV)</sub> 5 Amps	Square wave
Maximum surge current	I <sub>FSM</sub> 300 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, T<sub>J</sub></sub> = 125°C*
Max peak reverse current	I <sub>RM</sub> 2 mA	V <sub>RRM, T<sub>J</sub></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 μsec, Duty cycle 2%

Thermal and Mechanical Characteristics		
Storage temperature range	T <sub>STG</sub>	-40°C to 150°C
Operating junction temp range	T <sub>J</sub>	-40°C to 150°C
Weight		.008 ounces (.22 grams) typical

PH: 303-469-2161  
FAX: 303-466-3775

**Microsemi Corp.**  
**Colorado**

# LSM535, 540, 545

Figure 1  
Typical Forward Characteristics

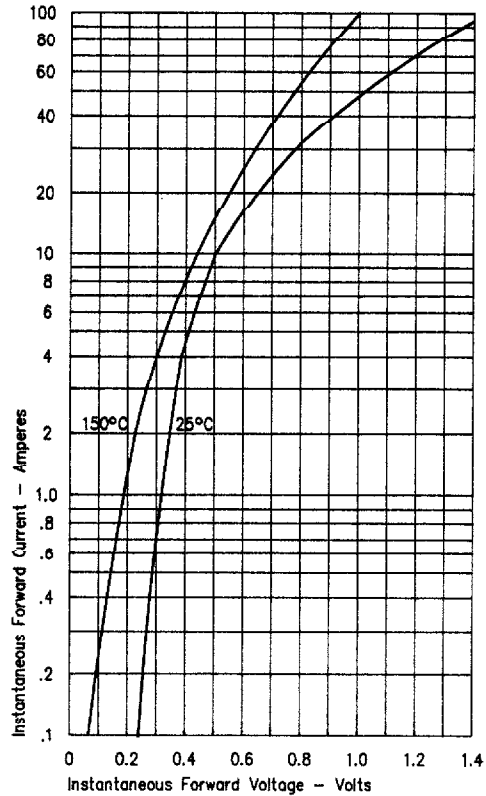


Figure 3  
Typical Junction Capacitance

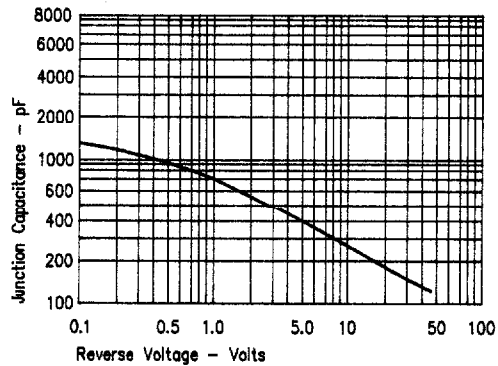


Figure 2  
Typical Reverse Characteristics

