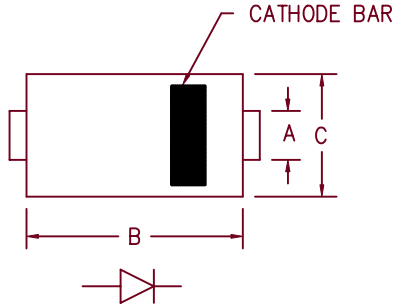
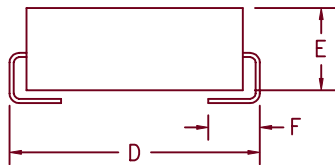


# 1 Amp Ultra Low Forward Voltage Schottky Rectifier LSM115J



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
LSM115J	10BQ015	15V	15V

- Schottky Barrier Rectifier
- Guard Ring For Reverse Protection
- Low Power Loss, High Efficiency
- 100°C Junction Temperature
- VRRM 15V
- High Surge Capability
- Ultra Low Forward Voltage
- Schottky OR'ing diode

Electrical Characteristics		
Average forward current	I <sub>F(AV)</sub> 1 Amps	T <sub>L</sub> = 65°C, Square wave, R <sub>θJL</sub> = 15°C/W
Maximum surge current	I <sub>FSM</sub> 50 Amps	8.3ms, half sine, T <sub>J</sub> = 100°C
Maximum peak forward voltage	V <sub>FM</sub> 0.29 Volts	I <sub>FM</sub> = 1.0A; T <sub>J</sub> = 25°C*
Maximum peak reverse current	I <sub>RM</sub> 500 mA	V <sub>R</sub> = 5V, T <sub>J</sub> = 100°C
Maximum peak reverse current	I <sub>RM</sub> 200 mA	V <sub>RRM</sub> = 15V, T <sub>J</sub> = 100°C
Maximum peak reverse current	I <sub>RM</sub> 100 mA	V <sub>R</sub> = 3.3V, T <sub>J</sub> = 100°C
Maximum peak reverse current	I <sub>RM</sub> 10 mA	V <sub>RRM</sub> = 15V, T <sub>J</sub> = 25°C
Typical junction capacitance	C <sub>J</sub> 150pF	T <sub>J</sub> = 25°C, V <sub>R</sub> = 5V

\*Pulse test: Pulse width 300 μsec. Duty cycle 2%

Thermal and Mechanical Characteristics		
Storage temperature range	T <sub>STG</sub>	-55°C to 150°C
Operating junction temp range	T <sub>J</sub>	-55°C to 100°C
Maximum thermal resistance	R <sub>θJL</sub>	15°C/W Junction to Lead
Weight		.0047 ounces (.013 grams) typical

3-12-02 Rev. 4

# LSM115J

Figure 1  
Typical Forward Characteristics

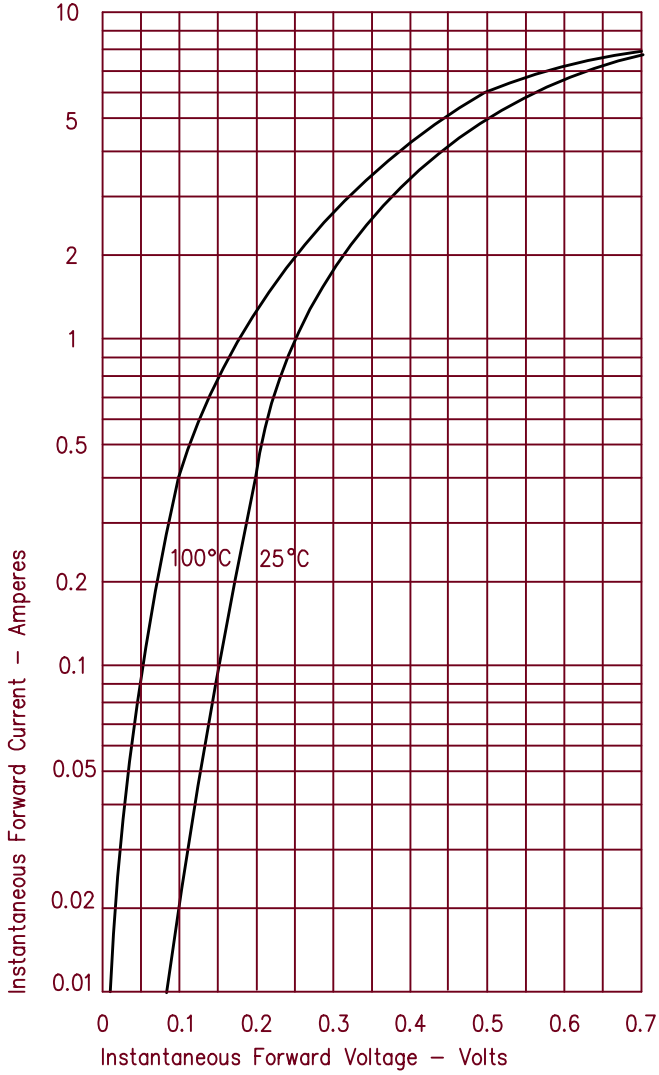


Figure 3  
Typical Junction Capacitance

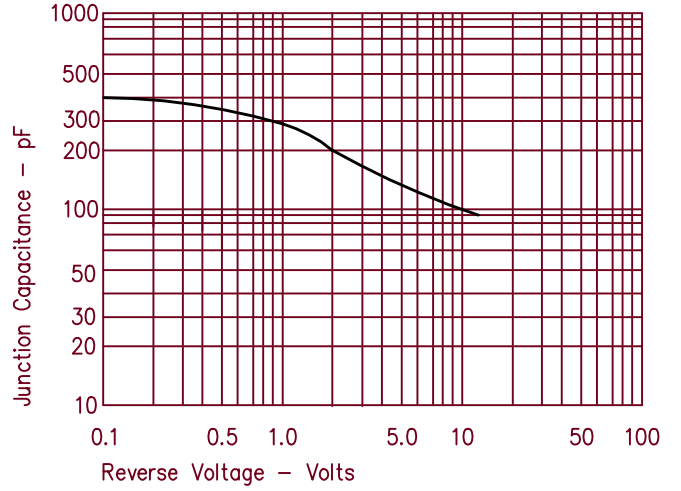


Figure 2  
Typical Reverse Characteristics

