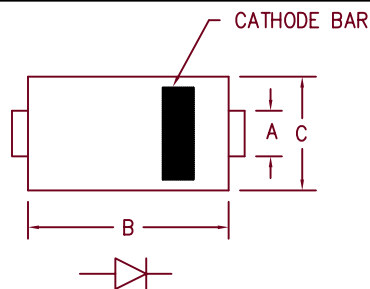
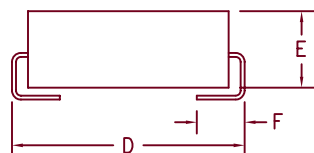


1 Amp Ultra Low Forward Voltage Schottky Rectifier LSM115J



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	



D0-214BA Package

Microsemi
Catalog Number

LSM115J

Industry
Part Number

10BQ015

Working
Peak Reverse
Voltage

15V

Repetitive
Peak Reverse
Voltage

15V

- Schottky Barrier Rectifier
- Guard Ring For Reverse Protection
- Low Power Loss, High Efficiency
- 100°C Junction Temperature
- VRRM 15V
- High Surge Capability
- Vf Less than .2V @ 1A @ 100°C
- Schottky OR'ing diode

Electrical Characteristics

Average forward current
Maximum surge current
Maximum peak forward voltage
Maximum peak reverse current
Typical junction capacitance

$I_F(AV)$ 1 Amps
 I_{FSM} 50 Amps
 V_{FM} 0.22 Volts
 I_{RM} 10 mA
 C_J 150pF

$T_L = 65^\circ\text{C}$, Square wave, $R_{\theta JL} = 15^\circ\text{C/W}$
8.3ms, half sine, $T_J = 100^\circ\text{C}$
 $I_{FM} = 1.0\text{A}$; $T_J = 75^\circ\text{C}^*$
 $V_{RRM} = 15\text{V}$, $T_J = 25^\circ\text{C}$
 $T_J = 25^\circ\text{C}$, $V_R = 5\text{V}$

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

Thermal and Mechanical Characteristics

Storage temperature range
Operating junction temp range
Maximum thermal resistance
Weight

T_{STG}
 T_J
 $R_{\theta JL}$

-55°C to 150°C
 -55°C to 100°C
 15°C/W Junction to Lead
.0047 ounces (.013 grams) typical



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05-15-07 Rev. 6

LSM115J

Figure 1
Typical Forward Characteristics

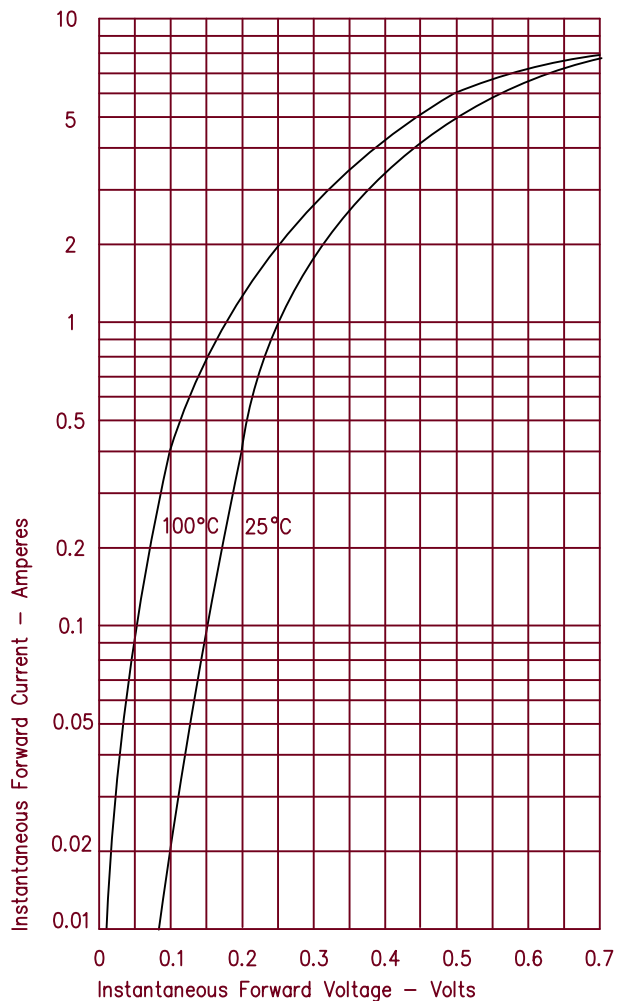


Figure 3
Typical Junction Capacitance

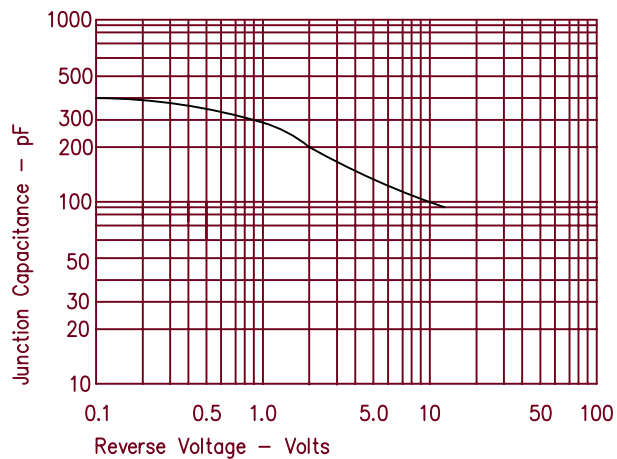


Figure 2
Typical Reverse Characteristics

