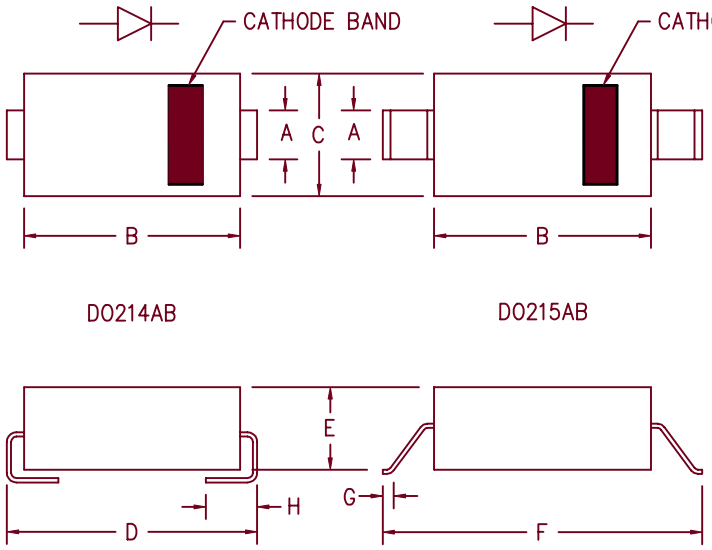
3 Amp Schottky OR'ing Rectifier

LSM315



Dim.	Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
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 Peak Reverse Voltage	Repetitive Peak Reverse Voltage
LSM315	30BQ015	15V	15V

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

- Schottky Barrier Rectifier
- Vf @ 3A, 100°C = 0.22V
- 125°C Junction temperature
- Reverse Energy Tested

Electrical Characteristics

Average forward current	$I_{F(AV)}$ 3 Amps	T_L = 74°C
Maximum surge current	I_{FSM} 150 Amps	8.3ms, half sine
Max. repetitive reverse current	V_{FM} 2 Amps	f = 1KHZ, 25°C, 1us square wave
Max. peak forward voltage	V_{FM} 0.32 Volts	I_{FM} = 3A; T_J = 25°C*
Typ. peak forward voltage	I_{RM} 0.22 Volts	I_{FM} = 3A; T_J = 100°C*
Max. peak reverse voltage	I_{RM} 2 mA	V_{RRM}, T_J = 25°C
Typ. peak reverse voltage	I_{RM} 70 mA	V_{RRM}, T_J = 100°C
Typ. peak reverse voltage	I_{RM} 40 mA	V_R = 5.0V, T_J = 100°C
Typical junction capacitance	C_J 600 pF	V_R = 5.0V, T_J = 25°C

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

Thermal and Mechanical Characteristics

Storage temperature range	T_{STG}	−55°C to 150°C
Operating junction temp range	T_J	−55°C to 125°C
Maximum thermal resistance – Junction to Lead	$R_{\Theta JL}$	22°C/W

9−27−02 Rev. IR

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LSM315

Figure 1
Typical Forward Characteristics

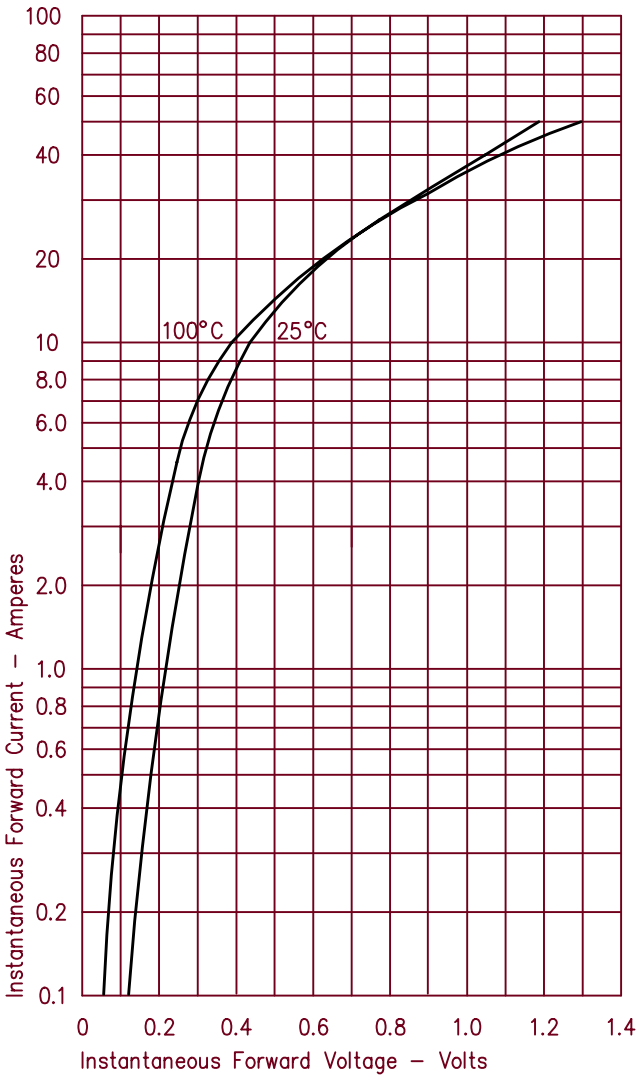


Figure 2
Typical Reverse Characteristics

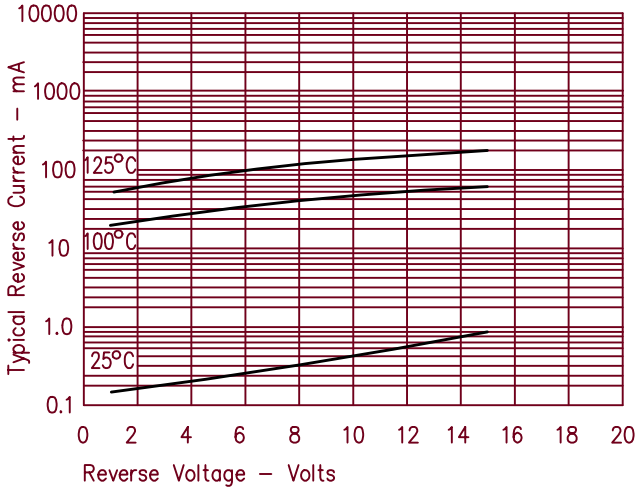
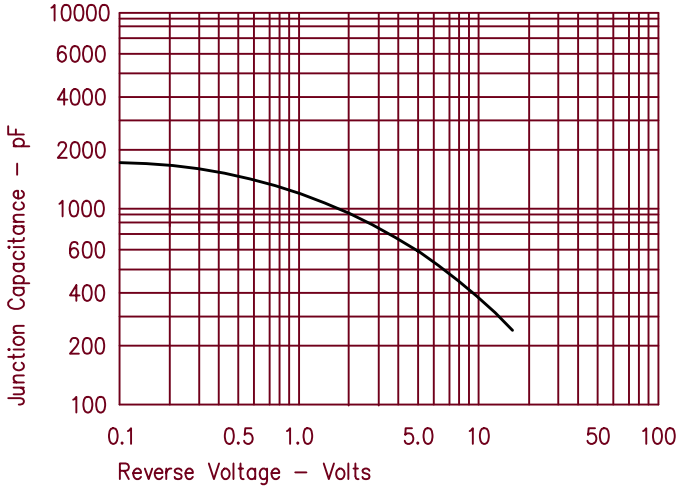


Figure 3
Typical Junction Capacitance



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