



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

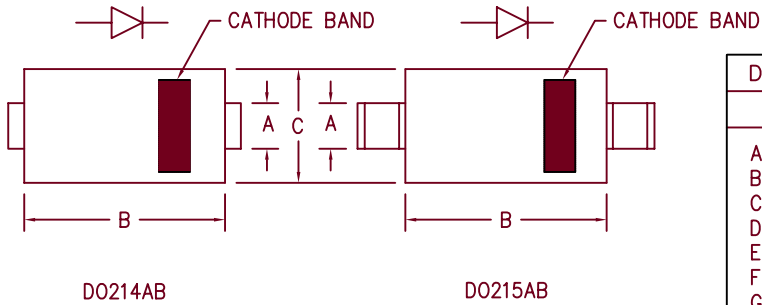
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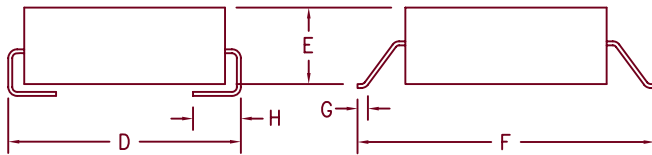
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3 Amp Schottky OR'ing Rectifier LSM315



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 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
- $V_f @ 3A, 100^\circ C = 0.22V$
- $125^\circ C$ Junction temperature
- Reverse Energy Tested

Electrical Characteristics

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

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

Thermal and Mechanical Characteristics

Storage temperature range	T_{STG}	$-55^\circ C$ to $150^\circ C$
Operating junction temp range	T_J	$-55^\circ C$ to $125^\circ C$
Maximum thermal resistance - Junction to Lead	$R_{\theta JL}$	$22^\circ C/W$



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05-15-07 Rev. 1

LSM315

Figure 1
Typical Forward Characteristics

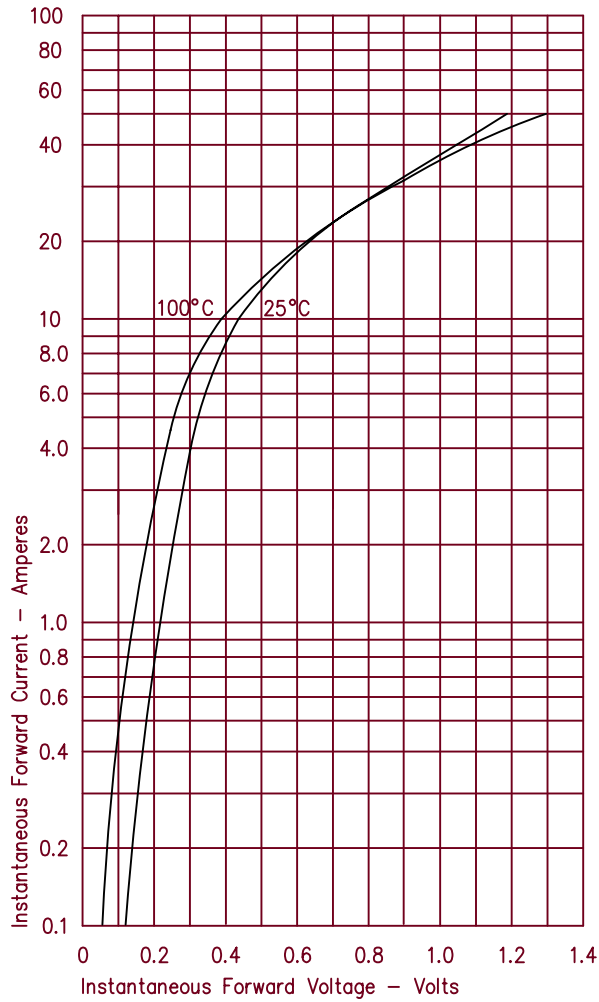


Figure 3
Typical Junction Capacitance

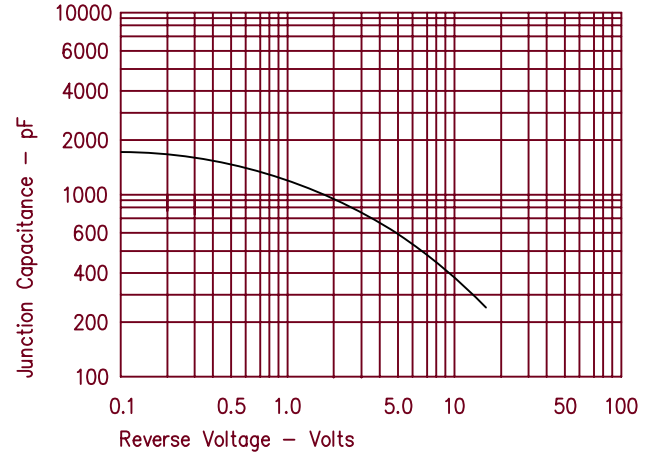


Figure 2
Typical Reverse Characteristics

