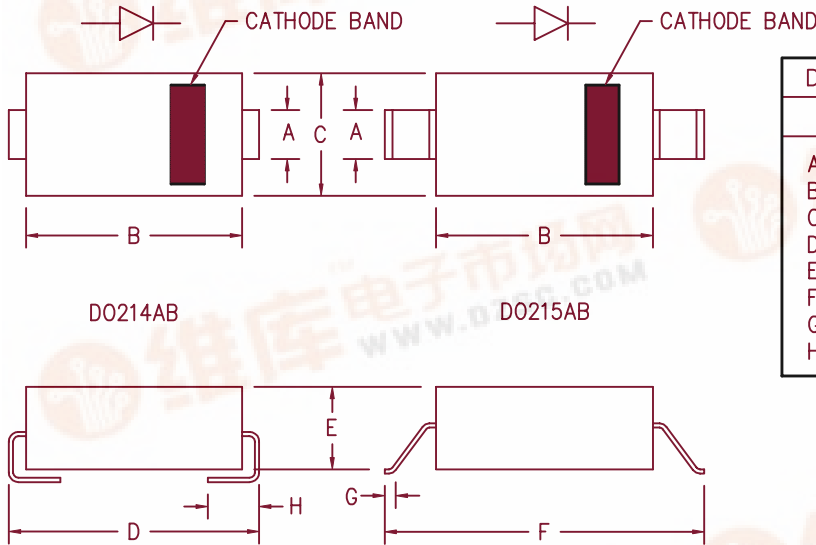


# 3 Amp Schottky ORing Rectifier LSM315



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 Reverse Voltage	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  $\mu sec$ , 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	$R_{\theta JL}$	$22^\circ C/W$

# LSM315

Figure 1  
Typical Forward Characteristics

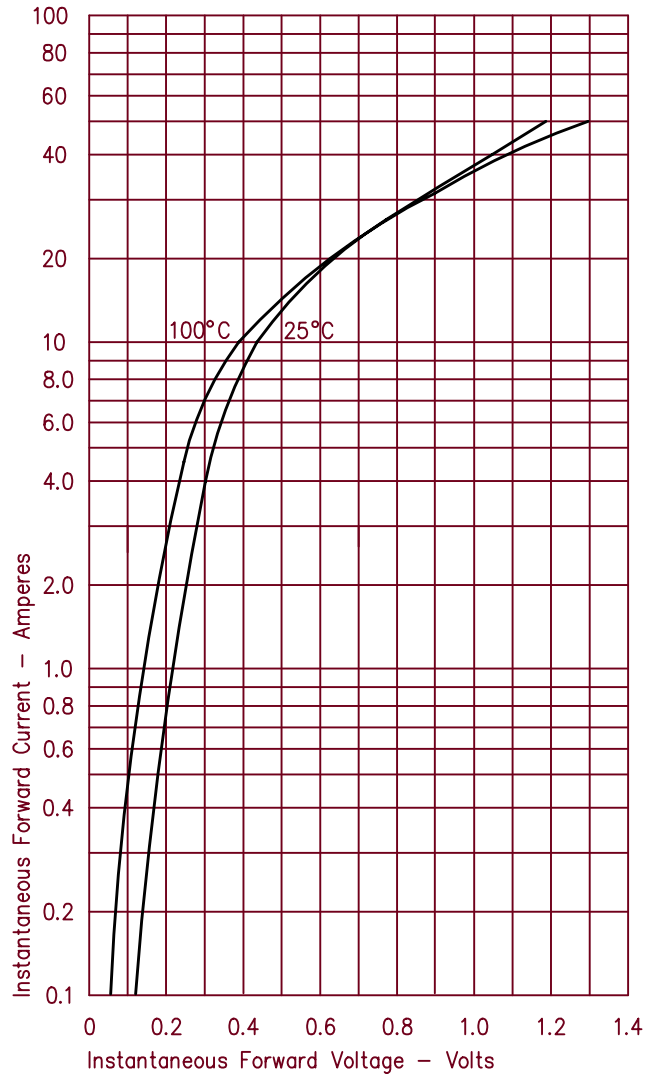


Figure 3  
Typical Junction Capacitance

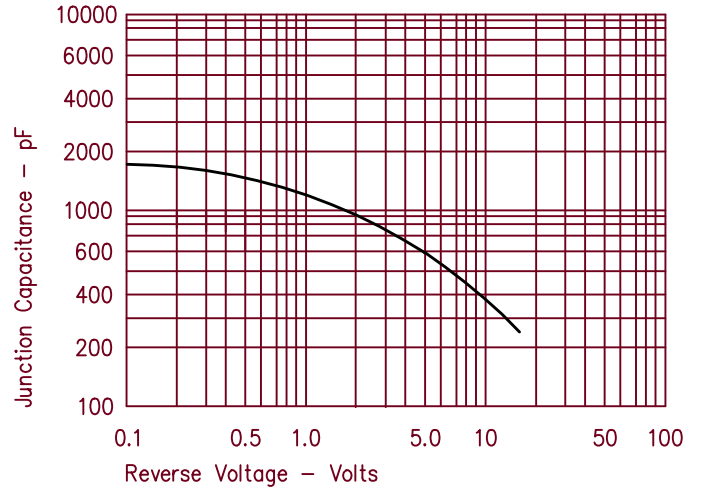


Figure 2  
Typical Reverse Characteristics

