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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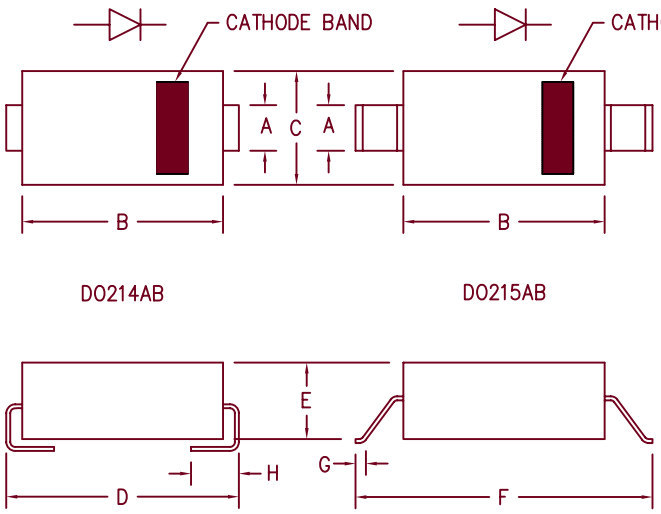
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

8 Amp Schottky Rectifier

LSM835 – LSM845



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	Working Working Peak Reverse Voltage	Repetitive Repetitive Peak Reverse Voltage
LSM835*	35V	35V
LSM840*	40V	40V
LSM845*	45V	45V

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

- Schottky Barrier Rectifier
- Guard Ring Protection
- Low Forward Voltage
- 150°C Junction Temperature
- V_{RRM} 35 to 45 Volts
- High Current Capability

Electrical Characteristics

Average forward current	$I_{F(AV)}$ 8.0 Amps	Square wave
Maximum surge current	$I_{F(AV)}$ 350 Amps	8.3 ms, half sine, T_J = 150°C
Max peak forward voltage	V_{FM} .40 Volts	I_{FM} = 8.0A; T_J = 150°C *
Max peak forward voltage	V_{FM} .52 Volts	I_{FM} = 8.0A; T_J = 25°C *
Max peak reverse current	I_{RM} 2 mA	V_{RRM}, T_J = 25°C
Typical junction capacitance	C_J 575 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 175°C
Operating junction temp range	T_J	−55°C to 150°C
Maximum thermal resistance	$R_{\theta JL}$	20°C/W Junction to lead
Weight		.008 ounces (.22 grams) typical

SCOTTSDALE Microsemi

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LSM835 – LSM845

Figure 1
Typical Forward Characteristic

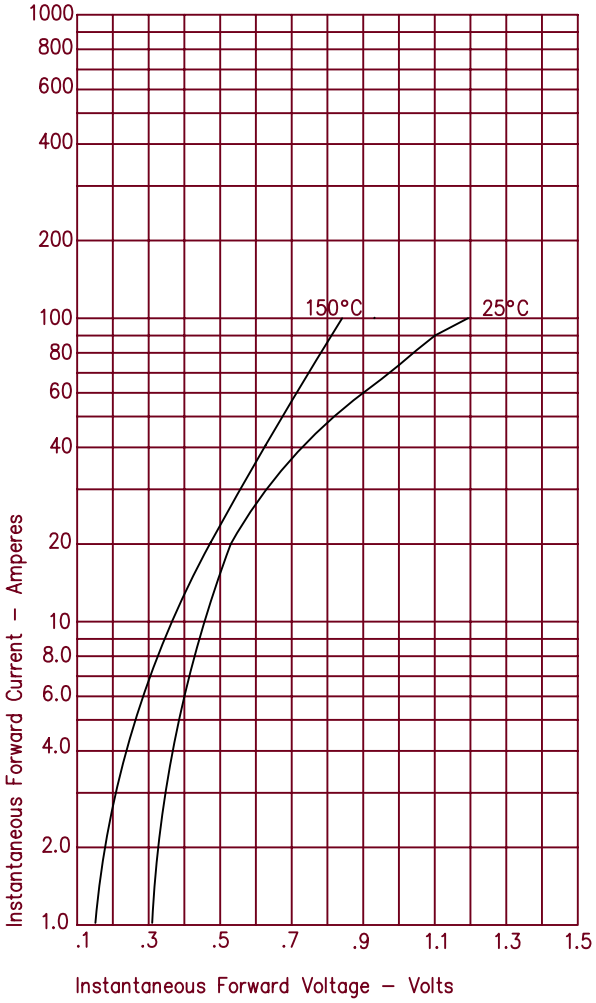


Figure 2
Typical Reverse Characteristics

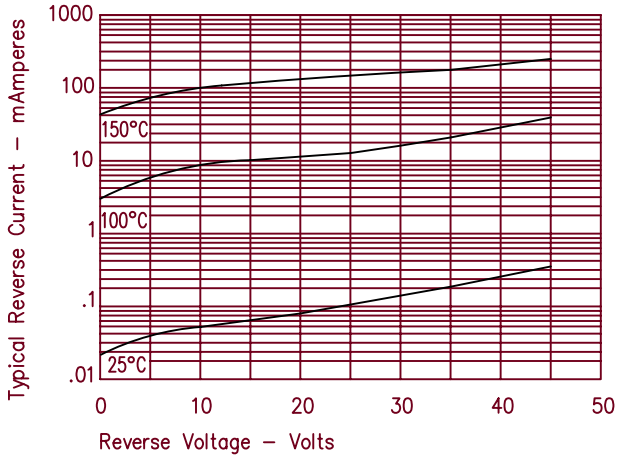
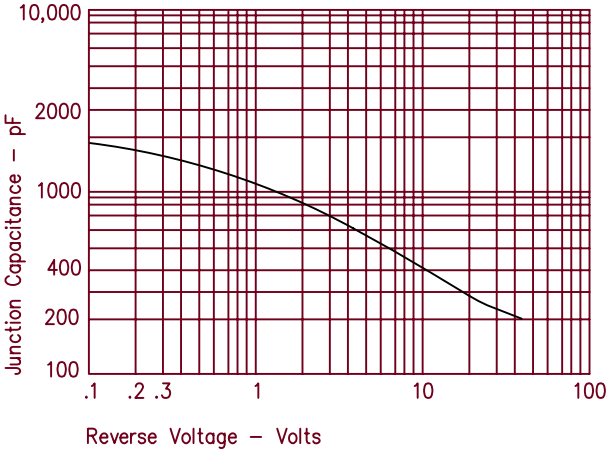


Figure 3
Typical Junction Capacitance



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