



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

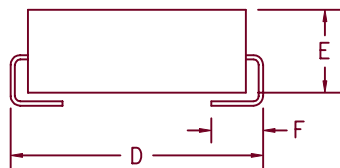
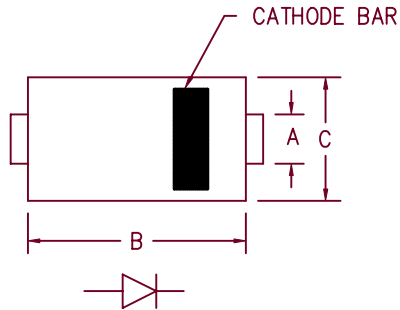
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

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



1 Amp Schottky Rectifier LSM140J — LSM150J



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	

DO-214BA Package

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage	Device Marking
LSM140J	40V	40V	L140
LSM145J	45V	45V	L145
LSM150J	50V	50V	L150

- Low Forward Voltage
- Schottky Barrier Rectifier
- Guard Ring Protection
- 150°C Junction Temperature
- VRRM 40 to 50 Volts

Electrical Characteristics

Average forward current	I _{F(AV)} 1.0 Amps	T _A = 130°C, Square wave, R _{θJC} = 15°C/W
Maximum surge current	I _{FSM} 50 Amps	8.3ms, half sine, T _J = 150°C
Max peak forward voltage	V _{FM} .39 Volts	I _{FM} = 0.1A: T _J = 25°C*
Max peak forward voltage	V _{FM} .58 Volts	I _{FM} = 1.0A: T _J = 25°C*
Max peak reverse current	I _{RM} 1.0 mA	V _{RRM} , T _J = 25°C
Typical junction capacitance	C _J 60pF	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
Typical thermal Resistance	R _{θJC}	15°C/W Junction to case
Weight		.0047 ounces (.013 grams) typical

3-31-00 Rev. 1

LSM140J — LSM150J

Figure 1
Maximum Forward Characteristics

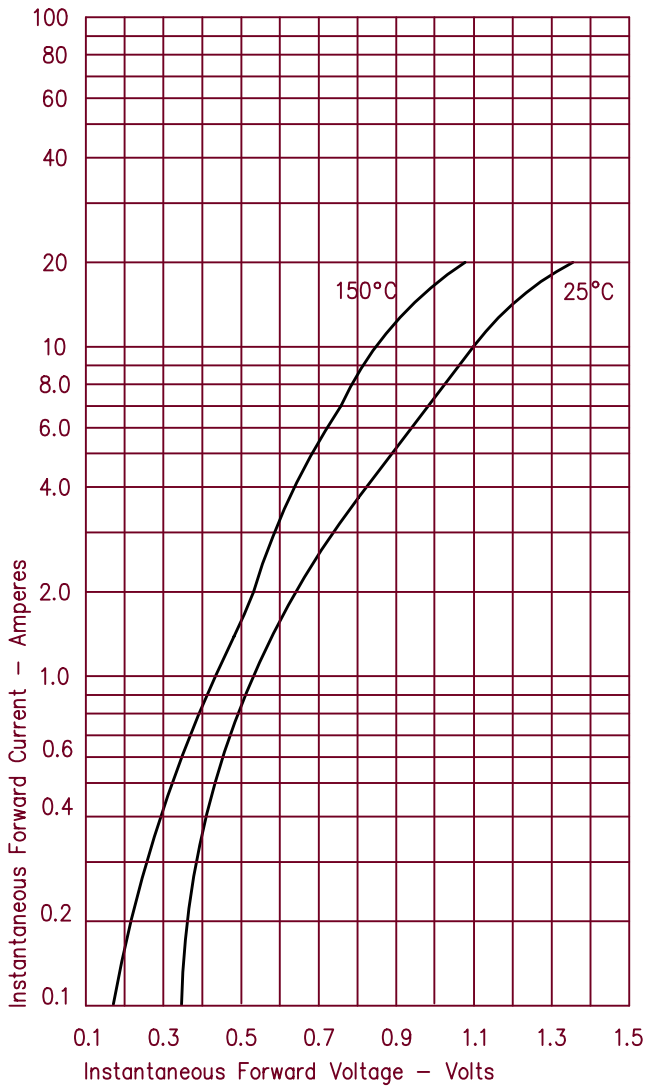


Figure 3
Typical Junction Capacitance

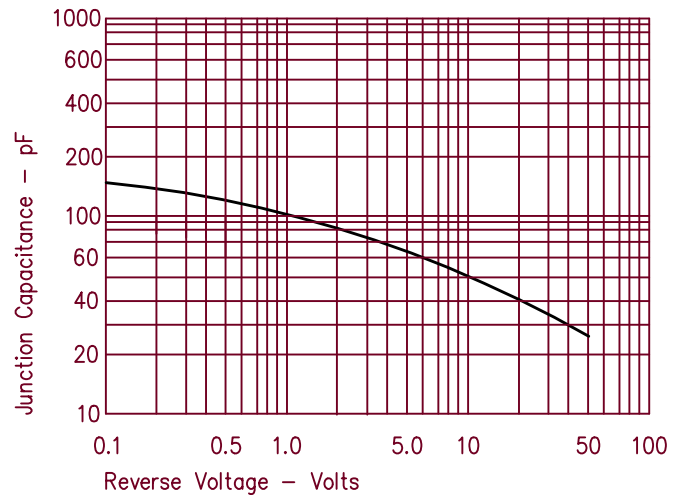


Figure 2
Typical Reverse Characteristics

