



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



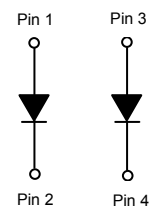
Silicon Power Schottky Diode

V_{RRM}	=	100 V
I_F	=	200 A

Features

- High Surge Capability

Package



SOT – 227

Maximum Ratings at $T_j = 125\text{ }^{\circ}\text{C}$, unless otherwise specified

Parameter	Symbol	Conditions	Values	Unit
Repetitive peak reverse voltage	V_{RRM}		100	V
RMS reverse voltage	V_{RMS}		70	V
DC blocking voltage	V_{DC}		100	V
Continuous forward current	I_F	$T_C \leq 85\text{ }^{\circ}\text{C}$	200	A
Operating temperature	T_j		-40 to 175	$^{\circ}\text{C}$
Storage temperature	T_{slg}		-40 to 175	$^{\circ}\text{C}$

Electrical Characteristics at $T_j = 125\text{ }^{\circ}\text{C}$, unless otherwise specified (Per Leg)

Parameter	Symbol	Conditions	Values			Unit
			min.	typ.	max.	
Diode forward voltage	V_F	$I_F = 100\text{ A}$, $T_j = 25\text{ }^{\circ}\text{C}$		0.9	0.95	V
		$I_F = 100\text{ A}$, $T_j = 125\text{ }^{\circ}\text{C}$		0.8		
Reverse current	I_R	$V_R = 80\text{ V}$, $T_j = 25\text{ }^{\circ}\text{C}$		3.75	10	μA
		$V_R = 80\text{ V}$, $T_j = 125\text{ }^{\circ}\text{C}$		1830	5000	
Total capacitance	C	$V_R = 1\text{ V}$, $f = 1\text{ MHz}$, $T_j = 25\text{ }^{\circ}\text{C}$		4960		pF
		$V_R = 50\text{ V}$, $f = 1\text{ MHz}$, $T_j = 25\text{ }^{\circ}\text{C}$		854		
		$V_R = 100\text{ V}$, $f = 1\text{ MHz}$, $T_j = 25\text{ }^{\circ}\text{C}$		617		

Thermal Characteristics

Thermal resistance, junction - case	R_{thJC}	1.87	$^{\circ}\text{C}/\text{W}$
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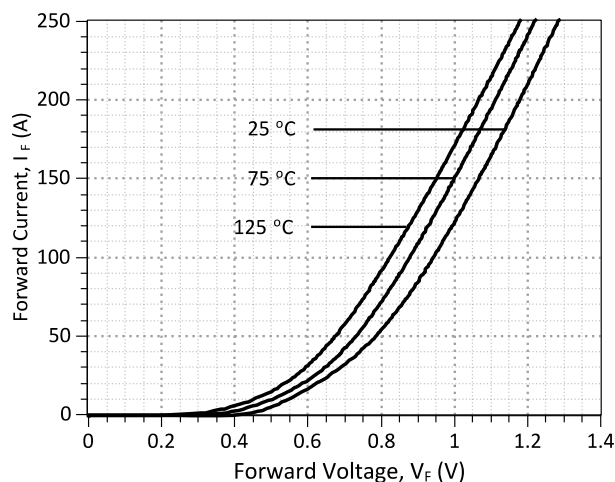


Figure 1: Typical Forward Characteristics(Per Leg)

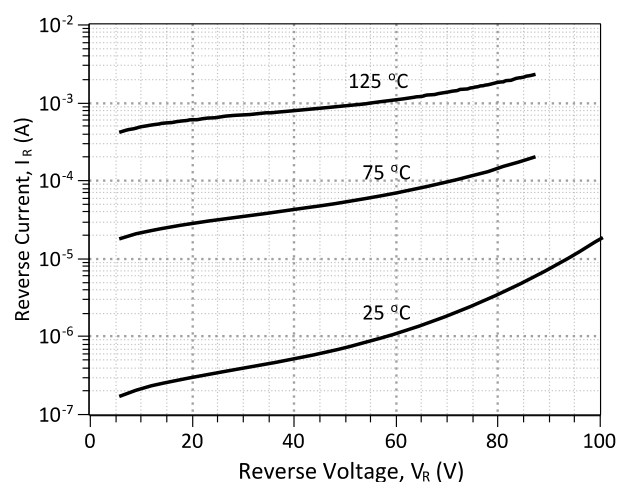


Figure 2: Typical Reverse Characteristics(Per Leg)

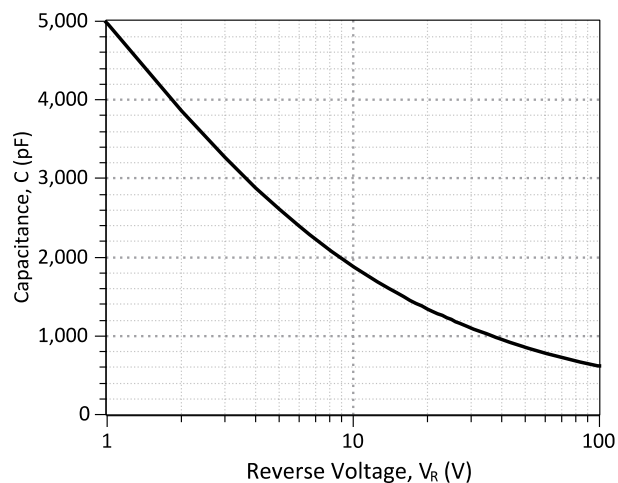
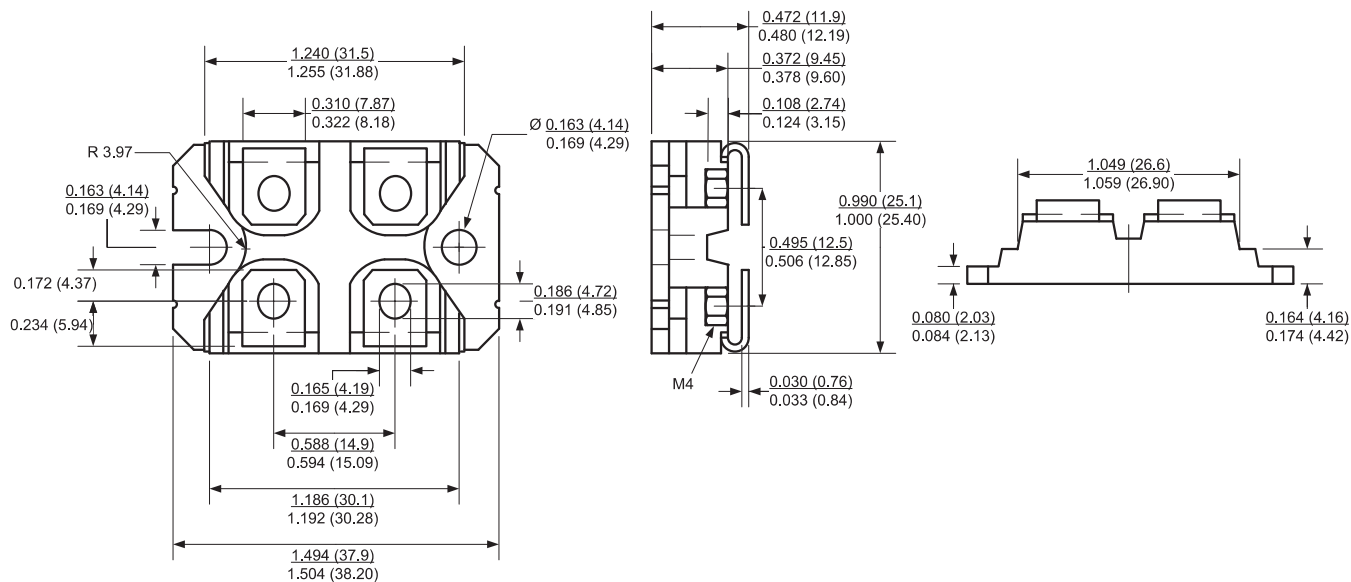


Figure 3: Typical Junction Capacitance vs Reverse Voltage Characteristics(Per Leg)

Package Dimensions:

SOT-227

PACKAGE OUTLINE



NOTE

1. CONTROLLED DIMENSION IS INCH. DIMENSION IN BRACKET IS MILLIMETER.
2. DIMENSIONS DO NOT INCLUDE END FLASH, MOLD FLASH, MATERIAL PROTRUSIONS

Revision History

Date	Revision	Comments	Supersedes
2012/03/12	0	Initial release	

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GeneSiC Semiconductor, Inc.
43670 Trade Center Place Suite 155
Dulles, VA 20166

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