

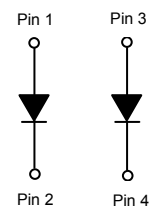
Silicon Power Schottky Diode

V_{RRM}	=	100 V
I_F	=	200 A

Features

- High Surge Capability

Package



SOT - 227

Maximum Ratings at $T_j = 125^\circ\text{C}$, 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	$T_C \leq 85^\circ\text{C}$	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 $T_j = 125^\circ\text{C}$, unless otherwise specified (Per Leg)

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

Thermal Characteristics

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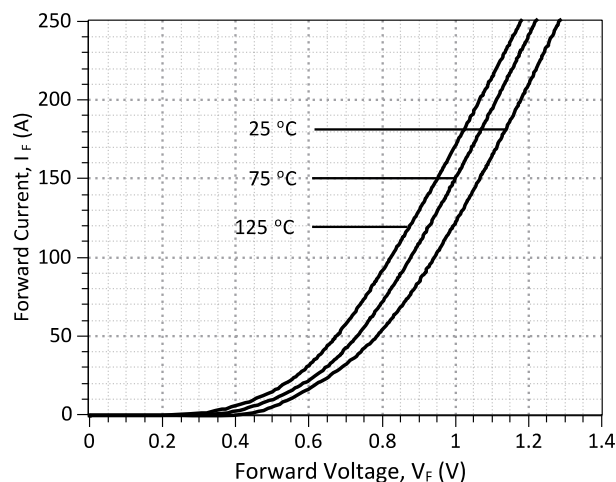


Figure 1: Typical Forward Characteristics(Per Leg)

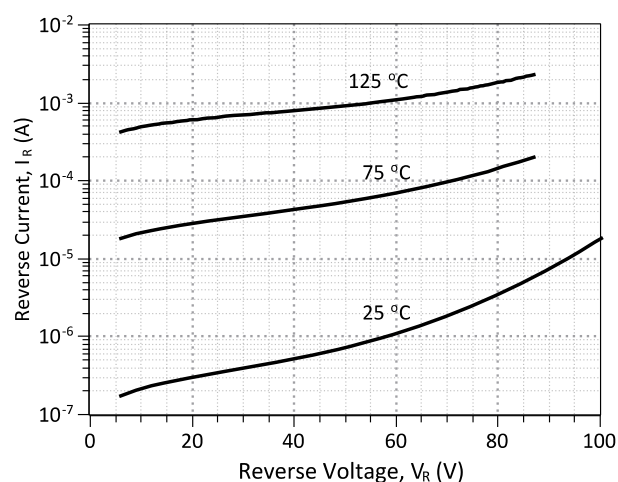
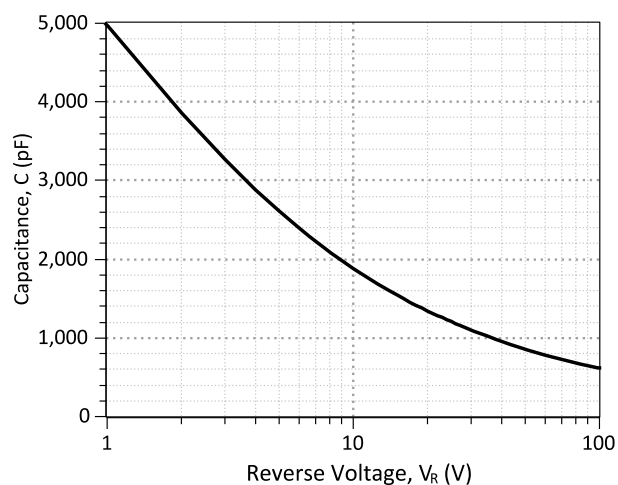


Figure 2: Typical Reverse Characteristics(Per Leg)



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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