

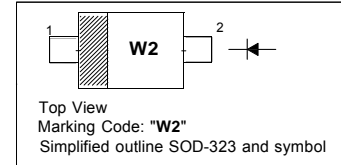
# Silicon Epitaxial Planar Switching Diode

## Features

- Fast switching diode

## PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



## Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Reverse Voltage	$V_R$	75	V
Peak Reverse Voltage	$V_{RM}$	100	V
Forward Current (Continuous)	$I_F$	250	mA
Non-repetitive Peak Forward Surge Current	$I_{FSM}$	0.5	A
at $t = 1\text{ s}$		1	
at $t = 1\text{ ms}$		2	
Power Dissipation	$P_{tot}$	200	mW
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 65 to + 150	$^\circ\text{C}$

## Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 1\text{ mA}$ at $I_F = 10\text{ mA}$ at $I_F = 50\text{ mA}$ at $I_F = 150\text{ mA}$	$V_F$	0.715	V
		0.855	
		1	
		1.25	
Reverse Leakage Current at $V_R = 75\text{ V}$ at $V_R = 25\text{ V}$ , $T_J = 150\text{ }^\circ\text{C}$ at $V_R = 75\text{ V}$ , $T_J = 150\text{ }^\circ\text{C}$	$I_R$	1	$\mu\text{A}$
		30	
		50	
Diode Capacitance at $V_R = 0\text{ V}$ , $f = 1\text{ MHz}$	$C_{tot}$	2	pF
Reverse Recovery Time at $I_F = 10\text{ mA}$ to $I_R = 10\text{ mA}$ , $I_R = 1\text{ mA}$ , $R_L = 100\ \Omega$	$t_{rr}$	6	ns

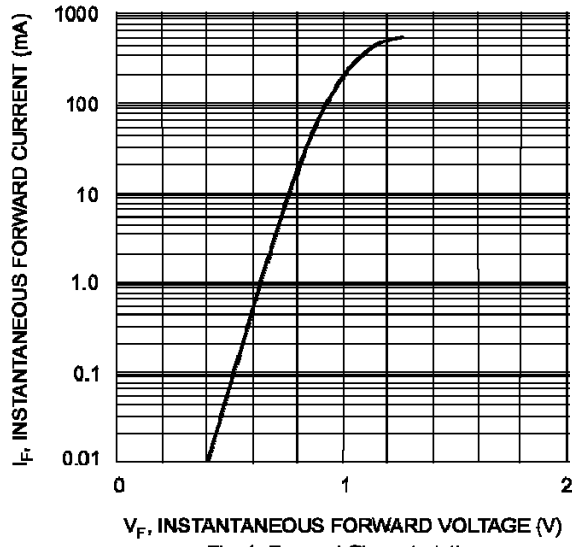


Fig. 1 Forward Characteristics

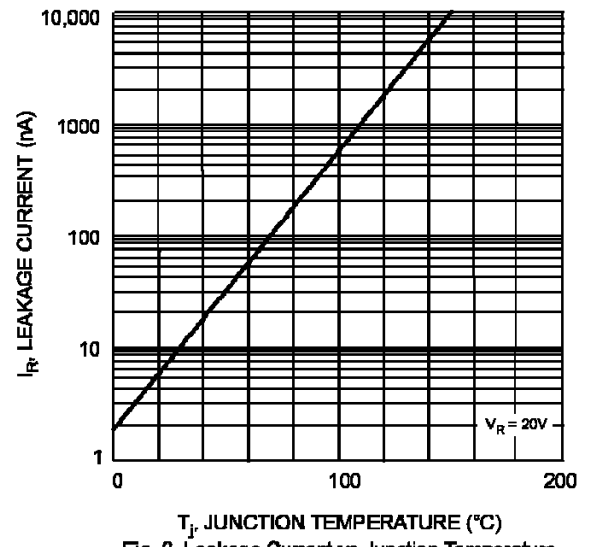


Fig. 2 Leakage Current vs Junction Temperature

## **PACKAGE OUTLINE**

**Plastic surface mounted package; 2 leads**

**SOD-323**

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