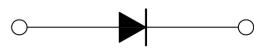


## Features

- Fast switching speed ( $T_{RR} < 50 \text{ nS}$ )
- High Stability and High reliability
- Low reverse leakage



Schematic Diagram

SOD-323

## Absolute Maximum Ratings

( $T_A=25^\circ\text{C}$  unless otherwise specified)

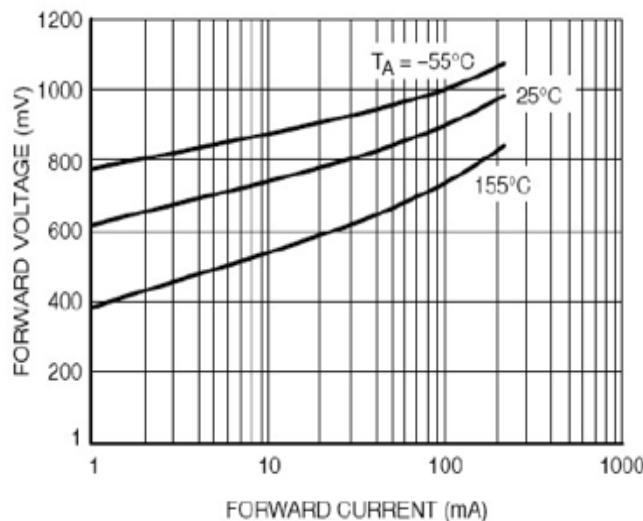
Parameter	Symbol	Value	Unit
Reverse Voltage	$V_R$	250	V
Peak Repetitive Reverse Vspoltage	$V_{RRM}$	250	V
Power Dissipation	$P_D$	200	mW
Average Rectified Current	$I_O$	200	mA
Peak Forward Surge Current@ $t_p=1\mu\text{s}$ ; $T_A=25^\circ\text{C}$	$I_{FSM}$	20	A
Operating Junction Temperature	$T_J$	-55 to +150	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150	$^\circ\text{C}$
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	635	$^\circ\text{C/W}$

## Electrical Characteristics

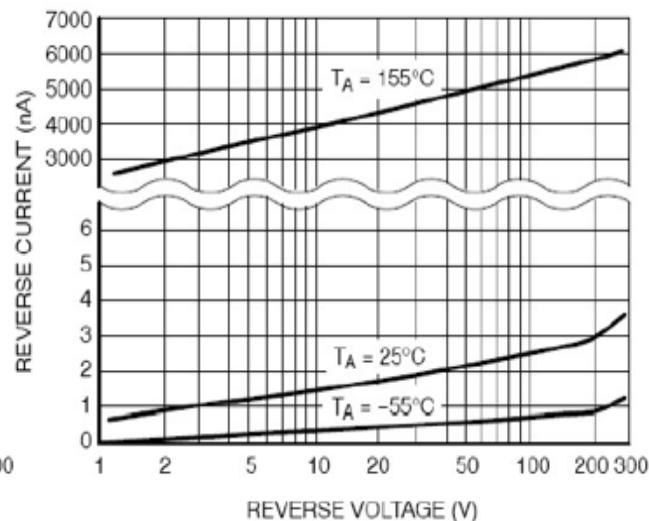
( $T_A=25^\circ\text{C}$  unless otherwise specified)

Parameter	Symbol	Test Condition	Min	Max	Unit
Reverse Voltage	$V_{BR}$	$I_R=100\mu\text{A}$	250	---	V
Reverse Leakage Current	$I_R$	$V_R=200\text{V}$	---	100	nA
Forward Voltage	$V_F$	$I_F=100\text{mA}$	---	1.0	V
		$I_F=200\text{mA}$	---	1.25	
Reverse Recovery Time	$T_{RR}$	$I_F=I_R=30\text{mA}$ , $RL=100\Omega$	---	50	nS
Capacitance	$C_D$	$V_R=0\text{V}$ , $f=1\text{MHz}$	---	5	pF

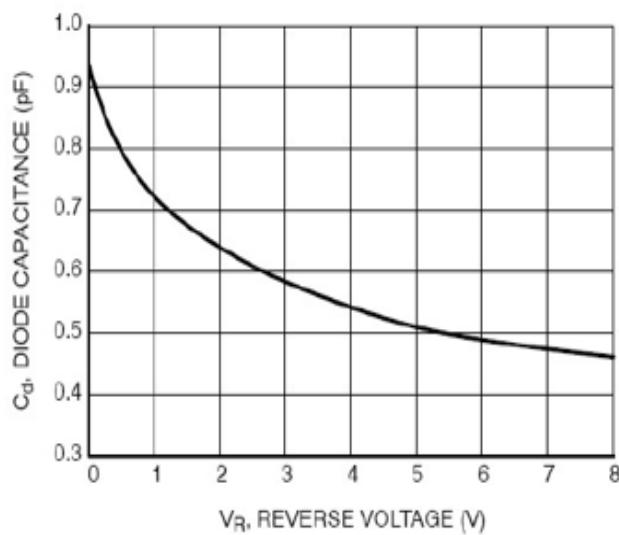
### Typical Electrical Characteristic Curves



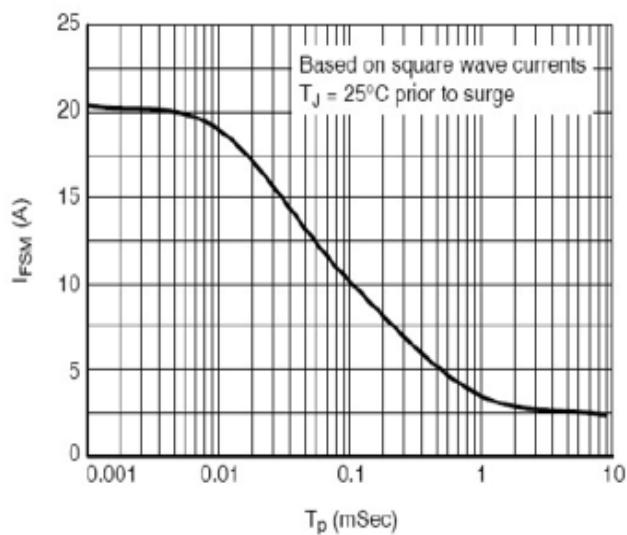
**Figure 1. Forward Voltage**



**Figure 2. Reverse Leakage**

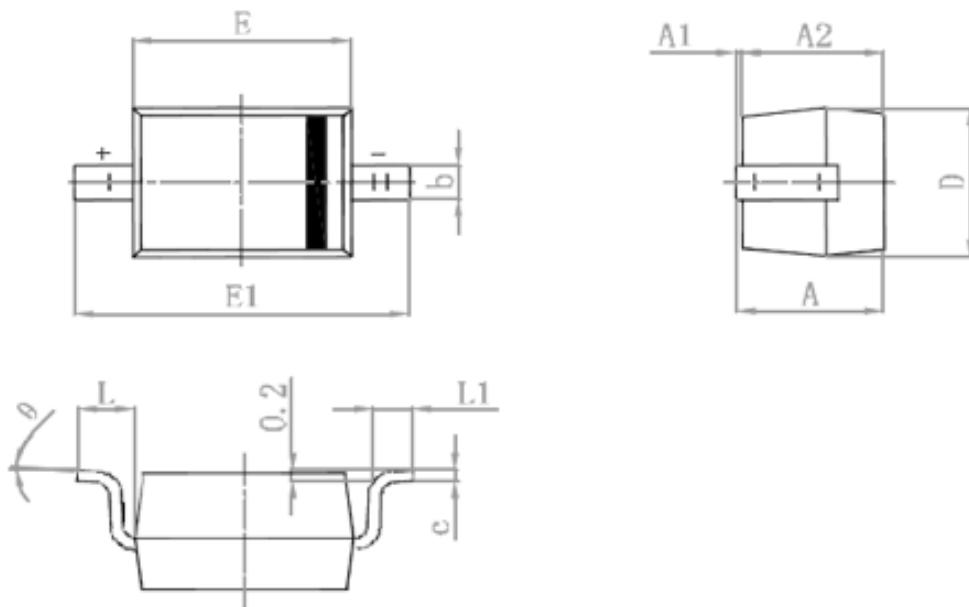


**Figure 3. Diode Capacitance**



**Figure 4. Maximum Non-Repetitive Peak Forward Cureent as a Function of Pulse Duration, Typical Values**

**Package Outline Dimensions SOD-323**



Symbol	Min.(mm)	Max.(mm)
<b>A</b>	-	1.000
<b>A1</b>	0.000	0.100
<b>A2</b>	0.800	0.900
<b>b</b>	0.250	0.350
<b>c</b>	0.080	0.150
<b>D</b>	1.200	1.400
<b>E</b>	1.600	1.800
<b>E1</b>	2.500	2.700
<b>L</b>	0.475REF	
<b>L1</b>	0.250	0.400
<b>θ</b>	<b>0°</b>	<b>8°</b>