

### Surface Mount Switching Diode

**Features:**

- \*High reliability
- \*Low Reversal Leakage Current
- \*Small Outline Surface Mount SOD-323 Package

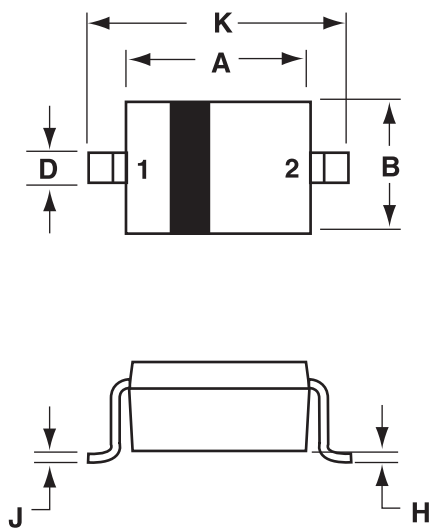
SWITCHING DIODE  
100mAMPERS  
40VOLTS



**SOD-323**

### SOD -323 Outline Dimensions

Unit:mm



Dim	MILLMETERS	
	Min	Max
A	1.60	1.80
B	1.15	1.35
C	0.80	1.00
D	0.25	0.40
E	0.15REF	
H	0.00	0.10
J	0.089	0.377
K	2.30	2.70

PIN 1.CATHODE  
2.ANODE

**Maximum Ratings**

Rating	Symbol	Value	Unit
Peak Reverse Voltage	$V_{RM}$	40	Vdc
DC Reverse Voltage	$V_R$	35	Vdc
Mean Rectifying Current	$I_o$	100	mAdc
Peak Forward Current	$I_{FM}$	225	mAdc
Surge Current (1s)	$I_{surge}$	400	mAdc
Junction Temperature	$T_j$	125	°C
Storage Temperature	$T_{stg}$	-55 to + 150	°C


**Electrical Characteristics** ( $T_A=25^{\circ}C$  Unless Otherwise note)

Characteristics	Symbol	Min	Max	Unit
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**Off Characteristics**

Forward Voltage ( $I_F=100\text{mAdc}$ )	$V_F$	—	1.2	Vdc
Reverse Current ( $V_R=20\text{Vdc}$ )	$I_R$	—	10	nAdc
Diode Capacitance ( $V_R=0.5\text{V}$ , $f=1.0\text{MHz}$ )	$C_T$	—	5.0	pF

**Device Marking**

Item	Marking	Equivalent Circuitdiagram
1SS 380	JS	

## Electrical Characteristic curves (Ta=25°C)

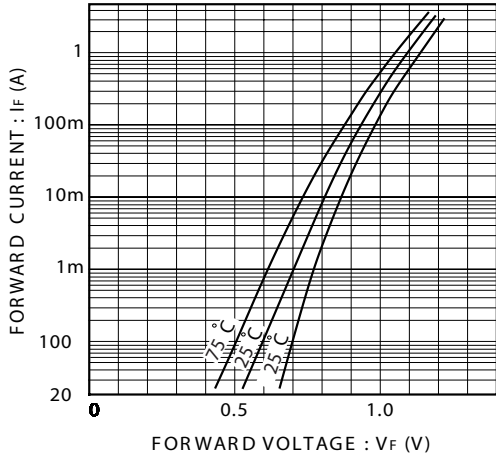


Fig. 1 Forward characteristics

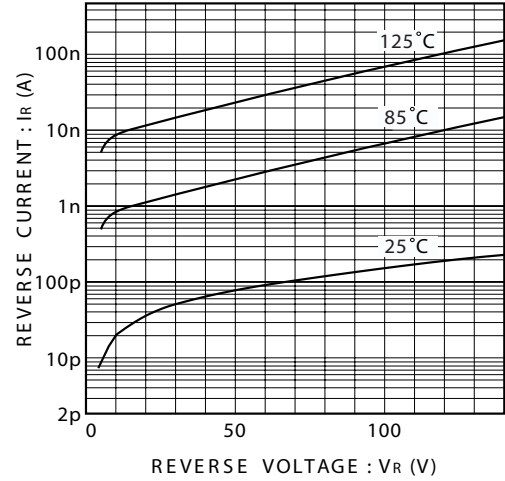


Fig. 2 Reverse characteristics

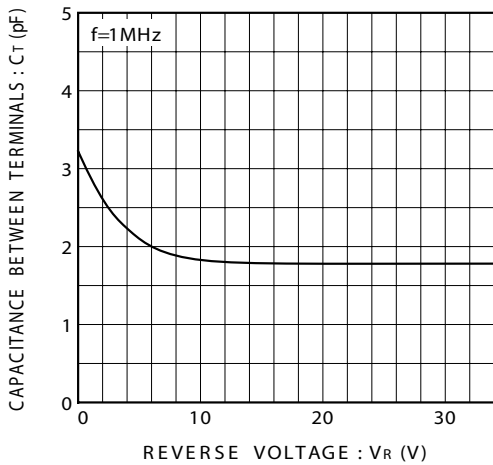


Fig. 3 Capacitance between terminals characteristics

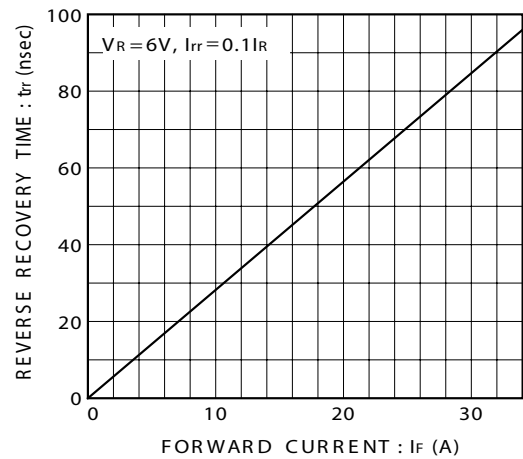


Fig. 4 Reverse recovery time characteristics

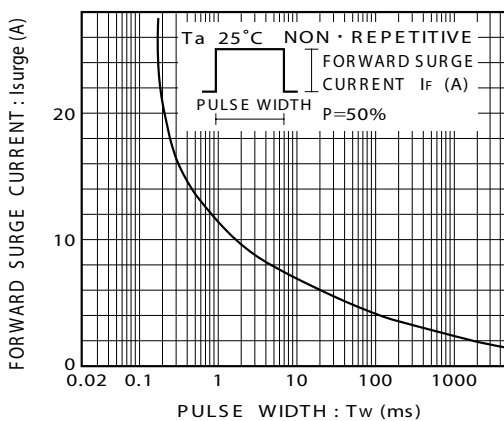


Fig. 5 Surge current characteristics

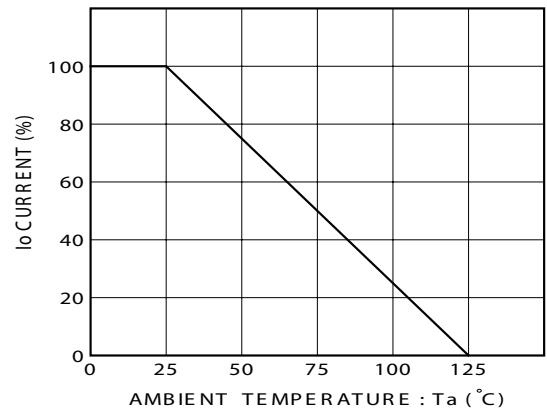


Fig. 6 Derating curve (mounting on glass epoxy PCBs)