

Surface Mount Switching Diode

(Pb) Lead(Pb)-Free

Features:

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

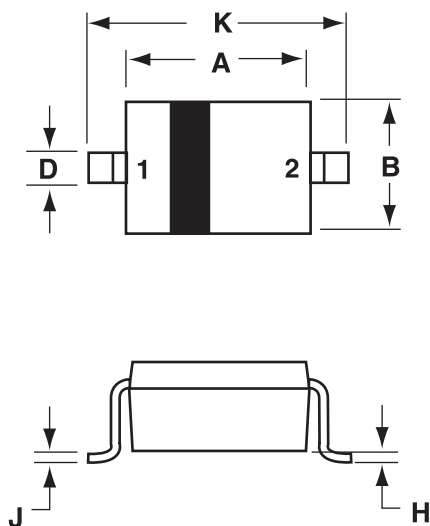
SWITCHING DIODE
100mAMPERS
40VOLTS



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 (TA=25°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)

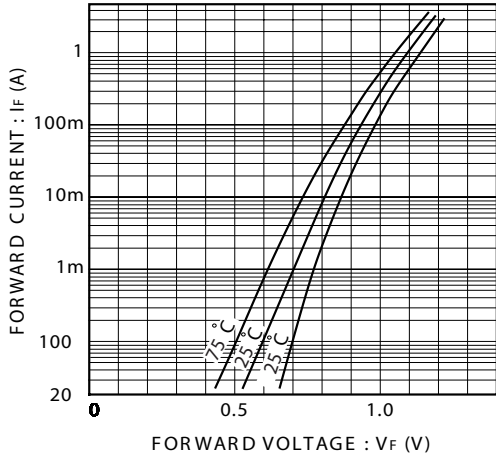


Fig. 1 Forward characteristics

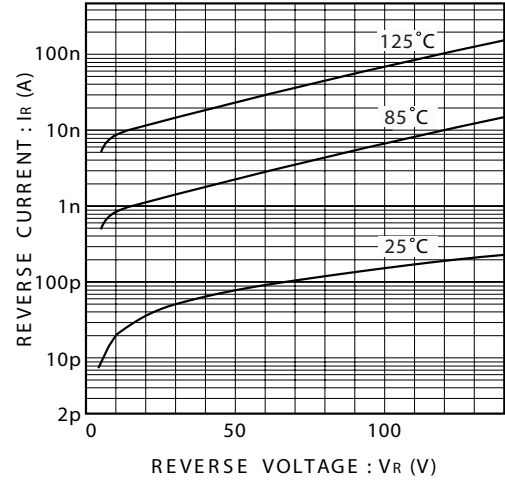


Fig. 2 Reverse characteristics

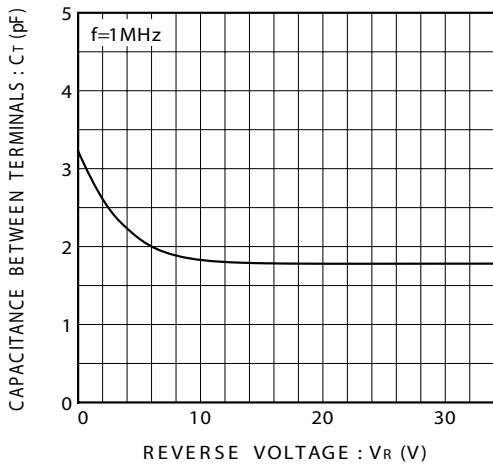


Fig. 3 Capacitance between terminals characteristics

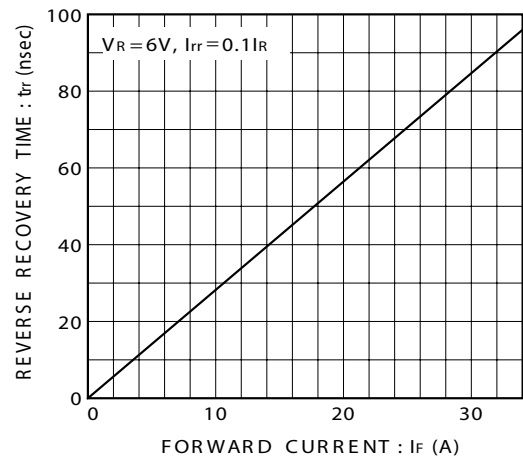


Fig. 4 Reverse recovery time characteristics

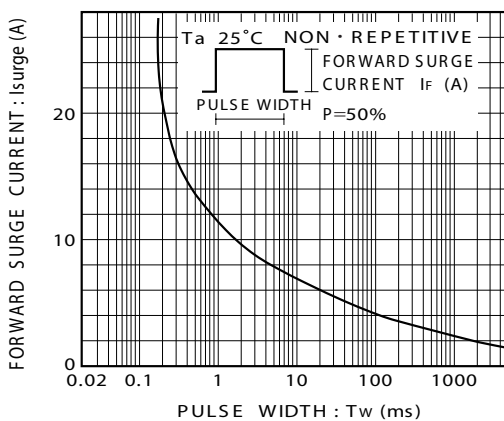


Fig. 5 Surge current characteristics

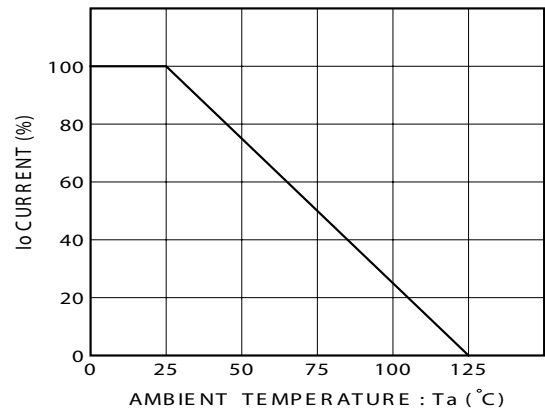


Fig. 6 Derating curve (mounting on glass epoxy PCBs)