

RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

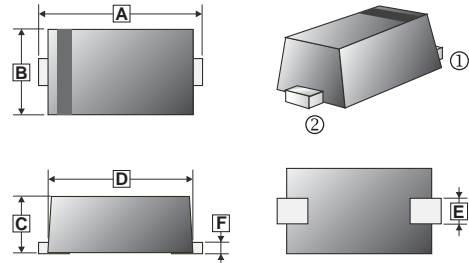
## FEATURES

- Small Surface Mounting Type
- Low Reverse Current and Low Forward Voltage
- High Reliability

## MECHANICAL DATA

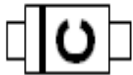
- Case: SOD-523, Molded Plastic
- Lead: Lead solderable per MIL-STD-202 method 208 guaranteed
- Polarity: See Diagrams Below
- Mounting position: Any

## SOD-523



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.50	1.70	D	1.10	1.30
B	0.70	0.90	E	0.25	0.35
C	0.50	0.77	F	0.07	0.20

## MARKING



## PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-523	3K	7 inch

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Rating	Unit
DC Reverse Voltage	$V_R$	30	V
Mean rectifying current	$I_O$	200	mA
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	1	A
Maximum Instantaneous Forward Voltage @ $I_F=200mA$	$V_F$	0.5	V
Maximum DC Reverse Current @ $V_R=10V$	$I_R$	30	$\mu A$
Operating Temperature Range	$T_J$	125	°C
Storage Temperature Range	$T_{STG}$	-40~125	°C

**RATINGS AND CHARACTERISTIC CURVES**

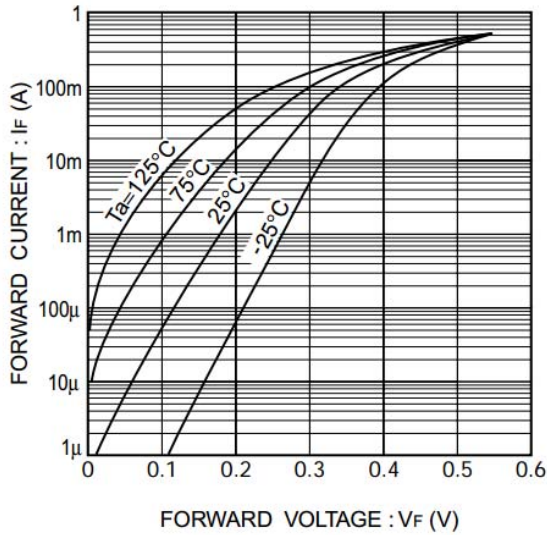


Figure 1. Forward characteristics

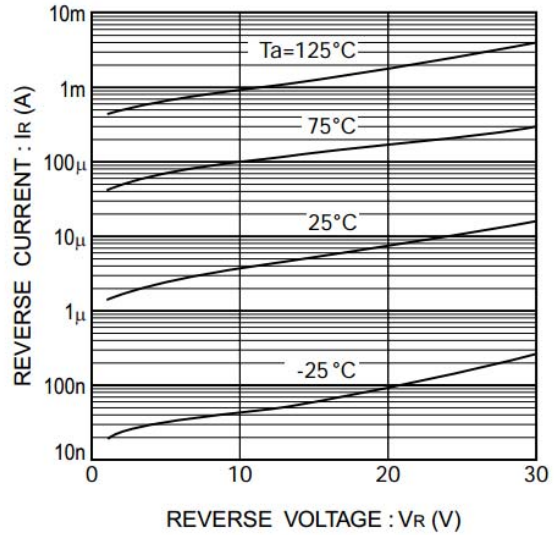


Figure 2. Reverse characteristics

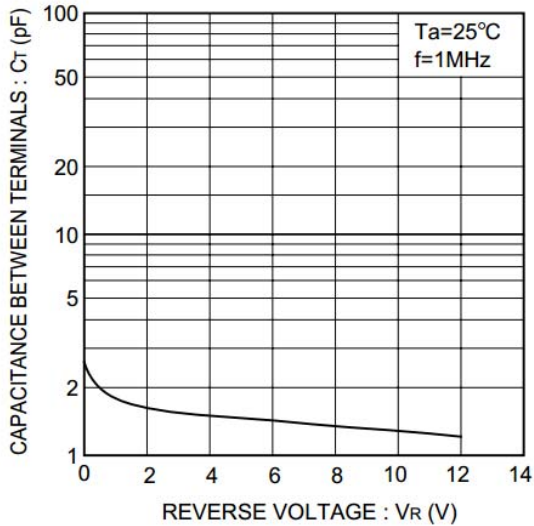


Fig. 3 Capacitance between terminals characteristics

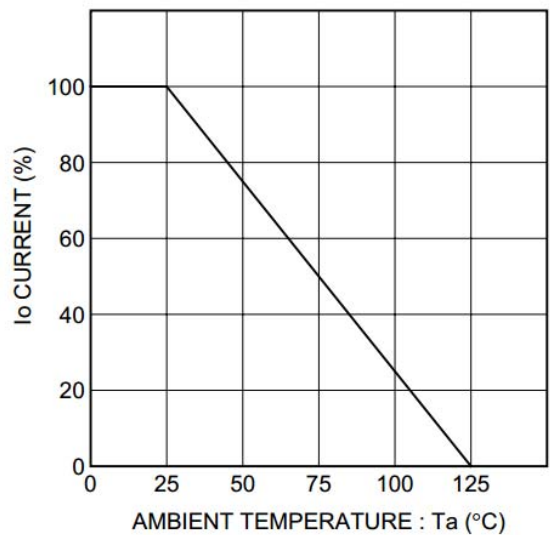


Fig. 4 Derating curve (mounting on glass epoxy PCBs)