

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

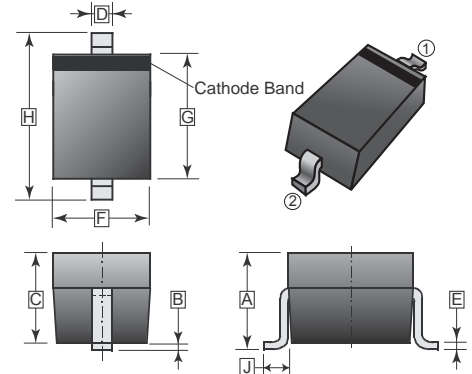
## FEATURES

- Extremely Low  $V_F$
- Extremely thin package
- Low stored charge
- Majority carrier conduction

## MECHANICAL DATA

- Case: Molded plastic, JEDEC SOD-323
- Terminal : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Indicated by cathode band
- Mounting Position : Any
- Weight : 0.000159 ounce, 0.0045 gram

## SOD-323



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.05	REF.	E	0.080	0.180
B	0.20	REF.	F	1.15	1.45
C	0.80	1.00	G	1.60	1.80
D	0.25	0.40	H	2.30	2.70

## MARKING

4V / JV

## PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-323	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
		Min.	Typ.	Max.	
Repetitive Peak reverse voltage	$V_{RM}$	45			V
Continuous Reverse Voltage	$V_R$	40			V
Forward Voltage @ $I_F=10mA$ DC	$V_F$			0.45	V
Reverse Current @ $V_R=10V$ DC	$I_R$			1	$\mu A$
Mean Rectifying Current	$I_O$			100	mA
Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rate Load (JEDEC Method)	$I_{FSM}$		1		A
Junction, Storage Temperature	$T_J, T_{STG}$	-40~125			°C

**RATINGS AND CHARACTERISTIC CURVES**

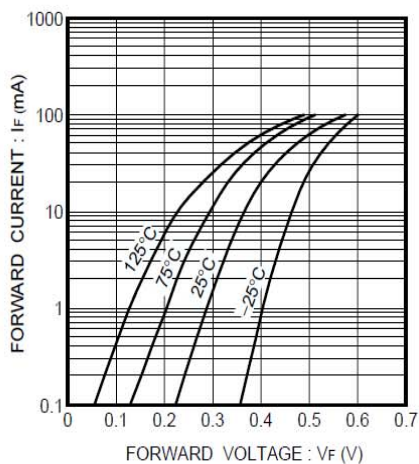


Fig. 1 Forward characteristics

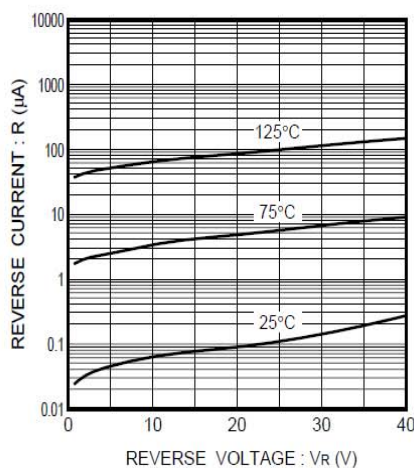


Fig. 2 Reverse characteristics

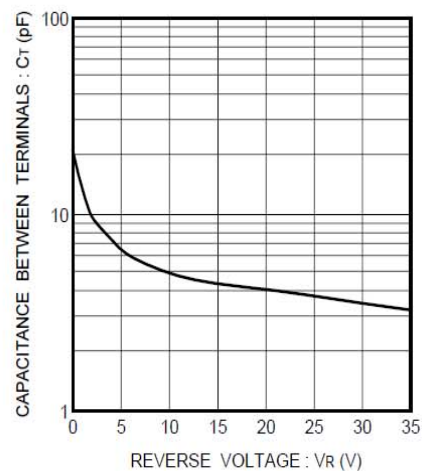


Fig. 3 Capacitance between terminals characteristics

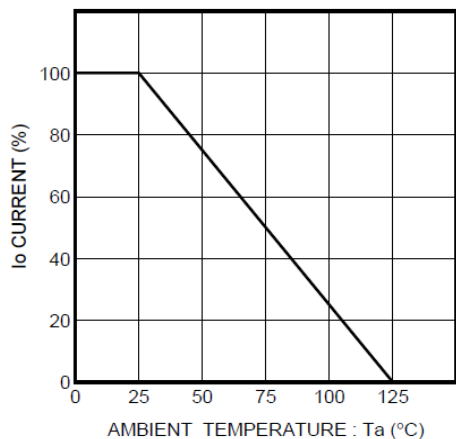


Fig. 4 Derating curve  
(mounting on glass epoxy PCBs)