

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

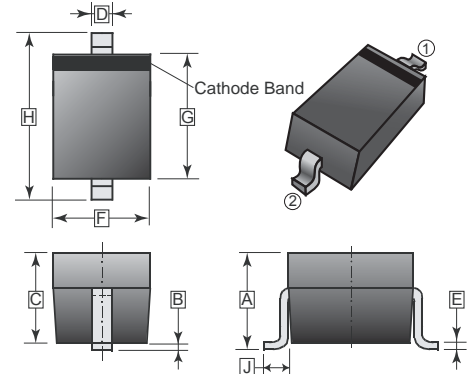
FEATURES

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

MECHANICAL DATA

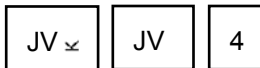
- Case: Molded plastic, JEDEC SOD-323
- Terminal : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Indicated by cathode band
- Mounting Position : Any
- Weight : 0.000159 ounce, 0.0045 gram

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



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
Repetitive Peak reverse voltage	V_{RM}	45	V
Continuous Reverse Voltage	V_R	40	V
Forward Voltage	V_F	$I_F=10mA$	0.34
		$I_F=100mA$	0.55
Reverse Current @ $V_R=10V$	I_R	30	μA
Mean Rectifying Current	I_O	0.1	A
Forward Surge Current	I_{FSM}	1	A
Capacitance between terminals	C_T	6	pF
Junction, Storage Temperature	T_J, T_{STG}	125, -40~125	°C

RATINGS AND CHARACTERISTIC CURVES

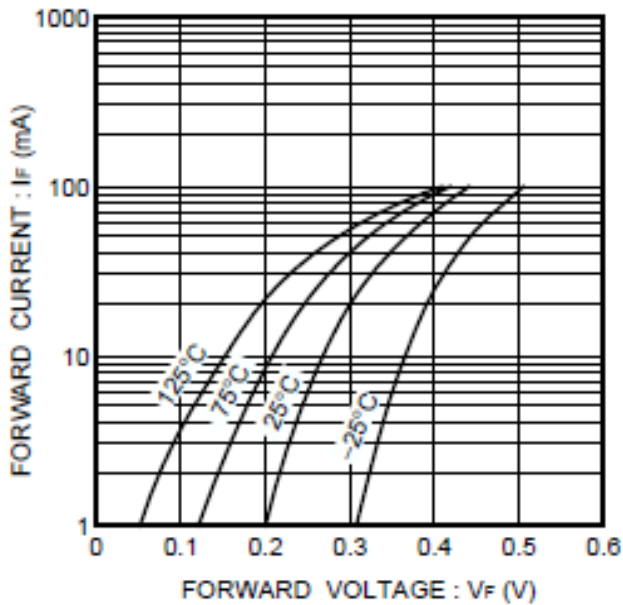


Fig. 1 Forward characteristics

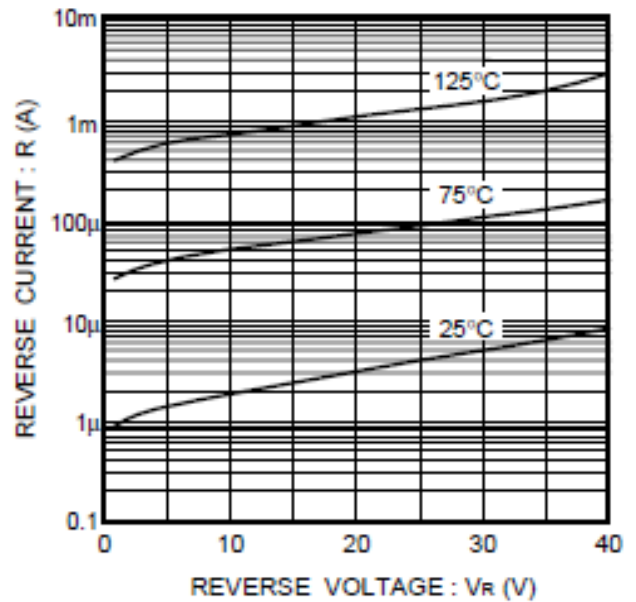


Fig. 2 Reverse characteristics

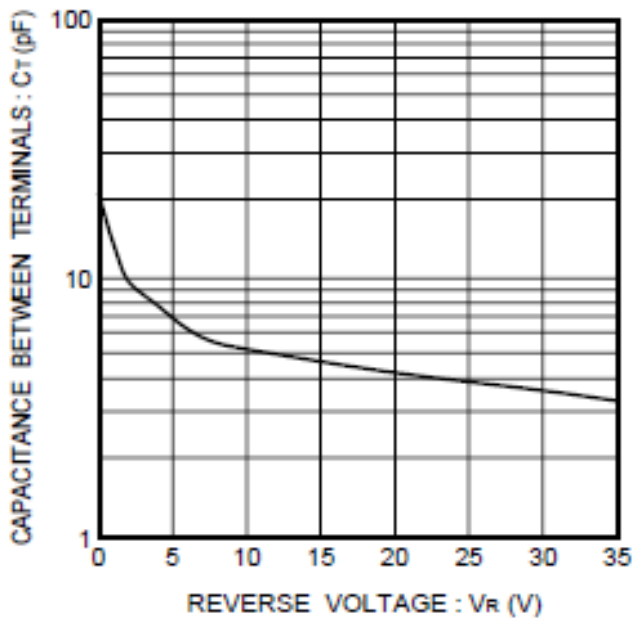


Fig. 3 Capacitance between terminals characteristics

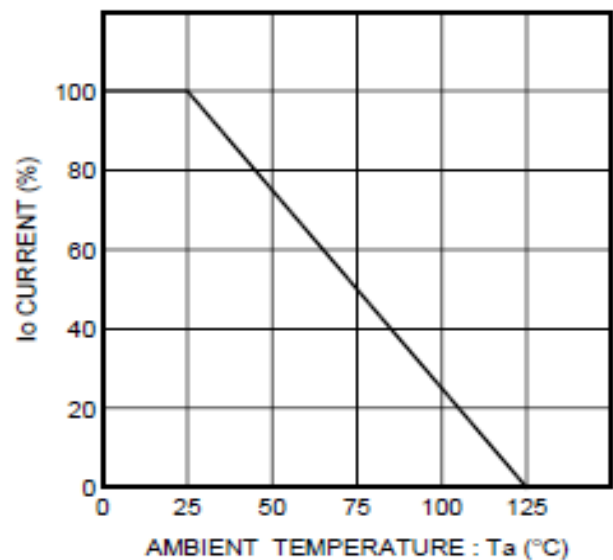


Fig. 4 Derating curve (mounting on glass epoxy PCBs)