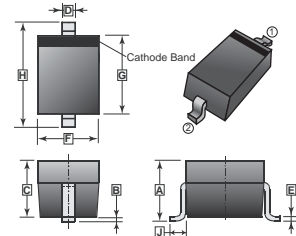


RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

**SOD-323**

## FEATURES

- High Current Capability
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Higher Temp Soldering : 250°C for 10 Seconds at Terminals
- Low Forward Voltage



## MECHANICAL DATA

- Case: Molded Plastic
- Epoxy: UL 94V-0 Rate Flame Retardant
- Lead: Solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color Band Denotes Cathode End
- Mounting Position: Any

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 CODE

SE

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$ unless otherwise specified)

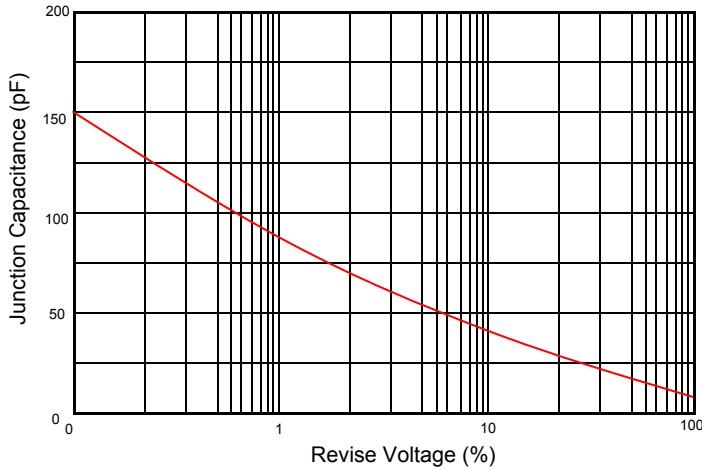
PARAMETER	SYMBOL	RATING	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	30	V
Working Peak Reverse Voltage	$V_{RWM}$	30	V
Maximum DC Blocking Voltage	$V_R$	30	V
Average Forward Current @ $T_J=25^\circ\text{C}$	$I_{F(AV)}$	0.5	A
Peak Forward Current @ 8.3 ms Half Sine	$I_{FSM}$	10	A
Maximum Instantaneous Forward Voltage $I_{FM} = 0.5 \text{ A}, T_A = 25^\circ\text{C}$	$V_{F1}$	0.5	V
Maximum Instantaneous Forward Voltage $I_{FM} = 0.5 \text{ A}, T_A = 125^\circ\text{C}$	$V_{F2}$	0.38	V
Maximum DC Reverse Current At Rated DC Blocking Voltage @ $T_J = 25^\circ\text{C}$	$I_{R1}$	0.1	mA
Maximum DC Reverse Current At Rated DC Blocking Voltage @ $T_J = 125^\circ\text{C}$	$I_{R2}$	5	mA
Typical Junction Capacitance (Note 1)	$C_J$	160	pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	488	$^\circ\text{C}/\text{W}$
Operating Temperature Range	$T_J$	150	$^\circ\text{C}$
Storage temperature	$T_{STG}$	150	$^\circ\text{C}$

Notes:

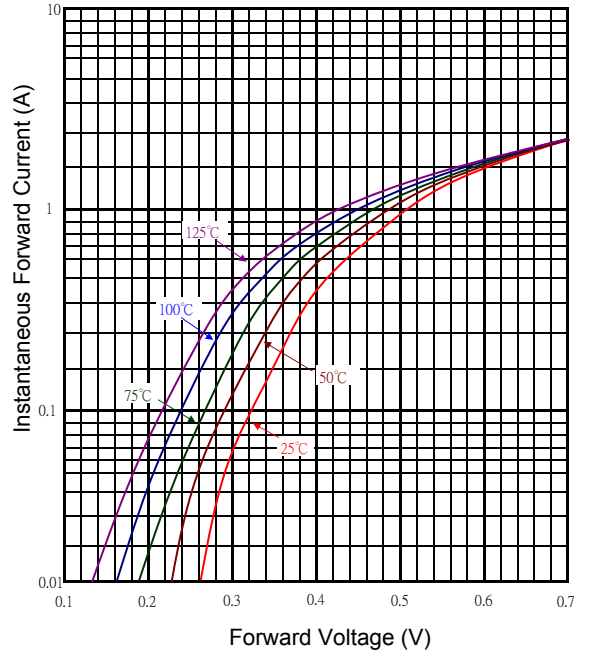
1. Measured at 1MHZ and applied reverse of 0V DC.
2. FR-4 PCB, 2 oz. 0.65mm x 1.35mm copper pad.

**RATINGS AND CHARACTERISTIC CURVES**

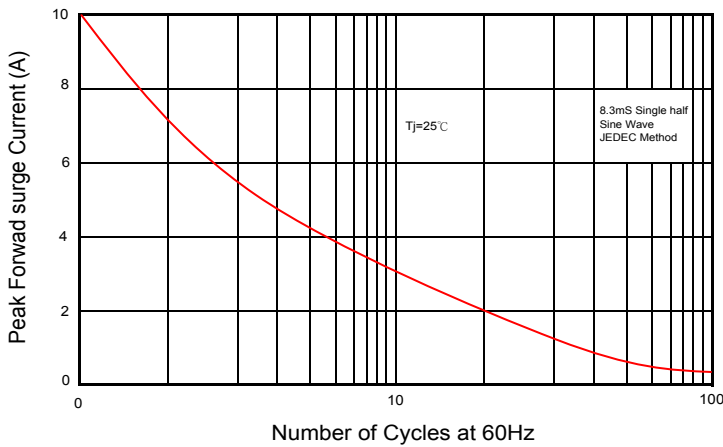
Typical Junction Capacitance



Typical Forward Characteristic



Maximum Non- Repetitive Forward Surge Current



Typical Reverse Characteristic

