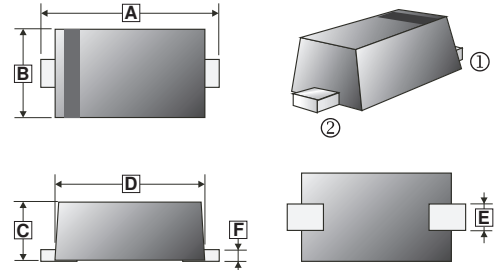


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

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

SOD-323L



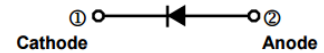
MECHANICAL DATA

- 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	2.30	2.70	D	1.60	2.10
B	1.05	1.45	E	0.25	0.40
C	0.60	1.00	F	0.05	0.25

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-323L	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%.)

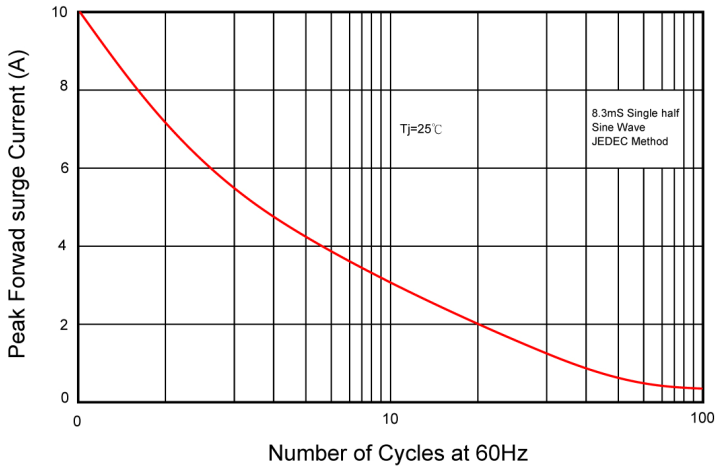
PARAMETER	SYMBOL	RATING	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	V
Working Peak Reverse Voltage	V_{RWM}	40	V
Maximum DC Blocking Voltage	V_R	40	V
Average Forward Current @ $T_J=25^\circ\text{C}$	$I_{F(AV)}$	0.5	A
Peak Forward Current @ 8.3 ms Half Sine	I_{FSM}	10	A
Maximum Instantaneous Forward Voltage @ $I_F=0.5\text{A}$	V_F	0.45	V
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	200	μA
Typical Junction Capacitance ¹	C_J	160	pF
Typical Thermal Resistance ²	$R_{\theta JA}$	488	$^\circ\text{C/W}$
Operating Temperature Range	T_J	-55~125	$^\circ\text{C}$
Storage temperature	T_{STG}	-55~125	$^\circ\text{C}$

Notes:

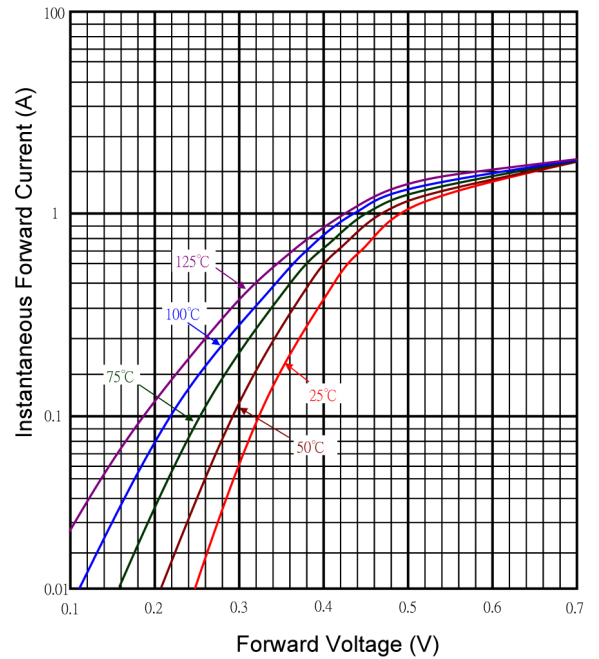
1. Measured at 1MHZ and applied reverse of 0V DC.
2. FR-4 PCB, 2 oz. 0.65mm x1.35mm copper pad.

RATINGS AND CHARACTERISTIC CURVES

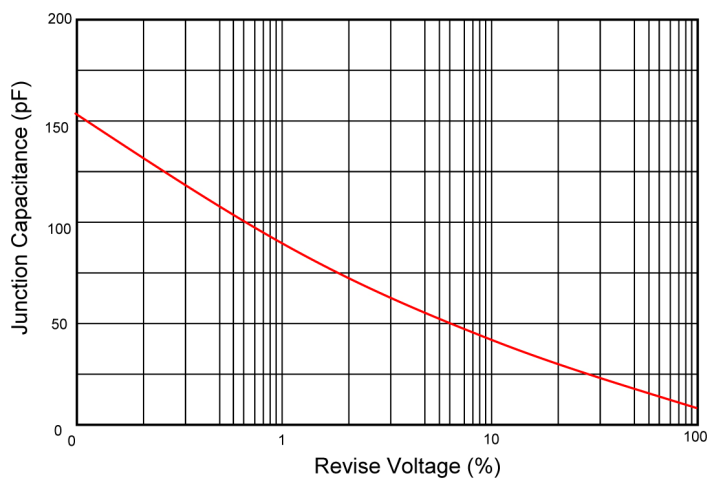
Maximum Non- Repetitive Forward Surge Current



Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic

