

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

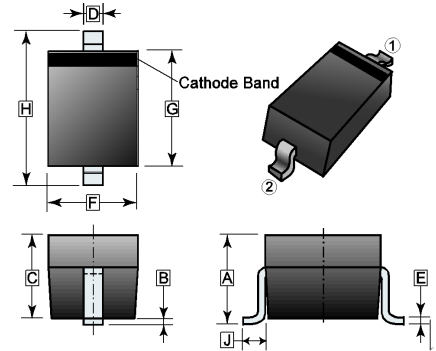
FEATURES

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

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

SOD-323



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.05 REF.		F	1.15	1.45
B	0.20 REF.		G	1.6	1.9
C	0.80	1.00	H	2.30	2.75
D	0.25	0.40	J	0.475 REF.	
E	0.080	0.20			

MARKING

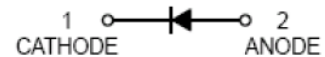
SL

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-323	3K	7 inch

ORDER INFORMATION

Part Number	Type
SCS140V-C	Lead (Pb)-free and Halogen-free



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%.)

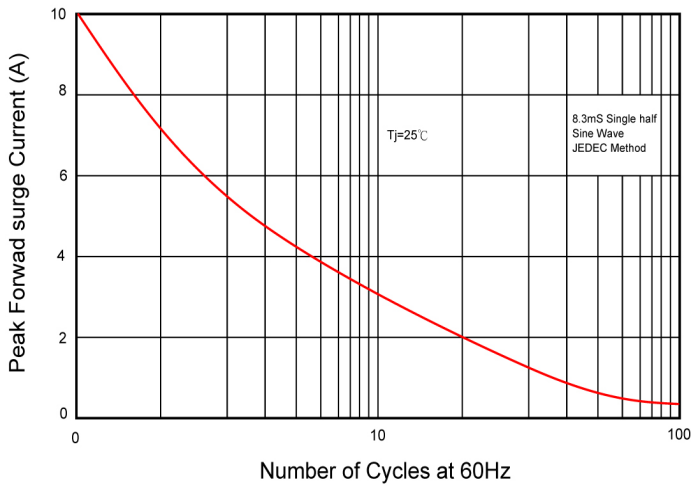
Parameter	Symbol	Ratings	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	V
Working Peak Reverse Voltage	V_{RWM}	40	V
Maximum DC Blocking Voltage	V_R	40	V
Average Forward Current	$I_{F(AV)}$	1	A
Peak Forward Current @8.3ms Half Sine	I_{FSM}	10	A
Maximum Instantaneous Forward Voltage @ $I_{FM}=1A$	V_F	$T_J=25^\circ C$	0.6
		$T_J=100^\circ C$	0.52
Maximum DC Reverse Current @ Rated DC Blocking Voltage	I_R	$T_J=25^\circ C$	1
		$T_J=100^\circ C$	10
Typical Junction Capacitance ¹	C_J	140	pF
Typical Thermal Resistance ²	$R_{\theta JA}$	488	°C/W
Operating Junction Temperature Range	T_J	-40~125	°C
Storage Temperature Range	T_{STG}	-55~125	

Notes:

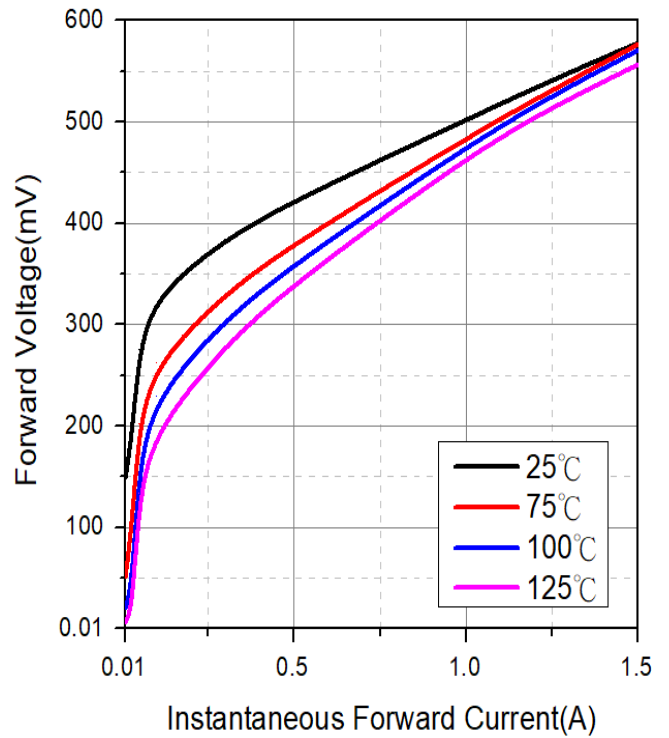
1. Measured at 1MHz and applied reverse of 0V D.C.
2. FR-4 PCB, 2oz. 0.65mmx1.35mm copper pad.

RATINGS AND CHARACTERISTIC CURVES

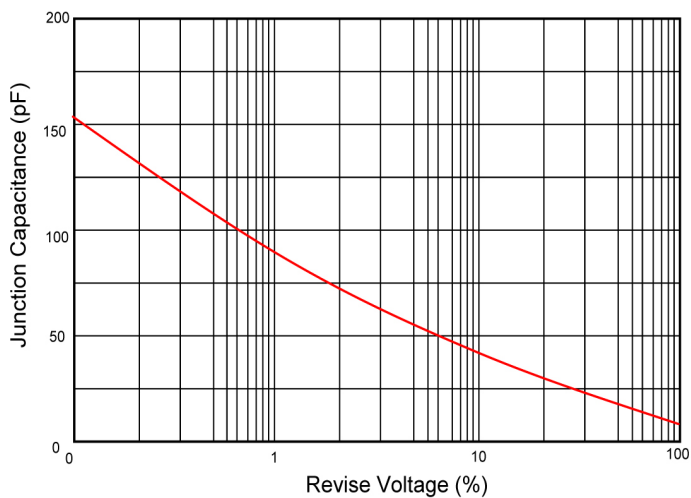
Maximum Non- Repetitive Forward Surge Current



Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic

