

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

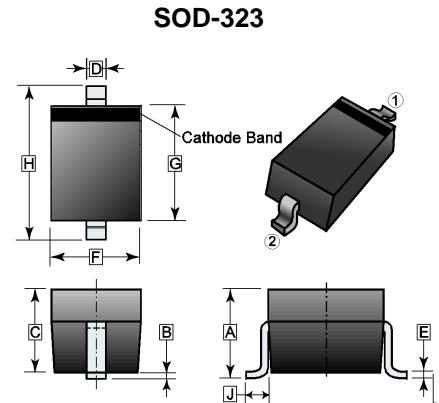
- Case: Molded Plastic
- Epoxy: UL 94V-0 Rate Flame Retardant
- Lead: Solderable Per MIL-STD-202, Method 208 Guaranteed
- Polarity: Color Band Denotes Cathode End
- Mounting Position: Any

### MARKING

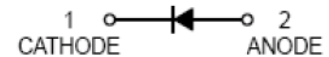
SN

### PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-323	3K	7 inch



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			



### ORDER INFORMATION

Part Number	Type
SCS1100V-C	Lead (Pb)-free and Halogen-free

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise specified)

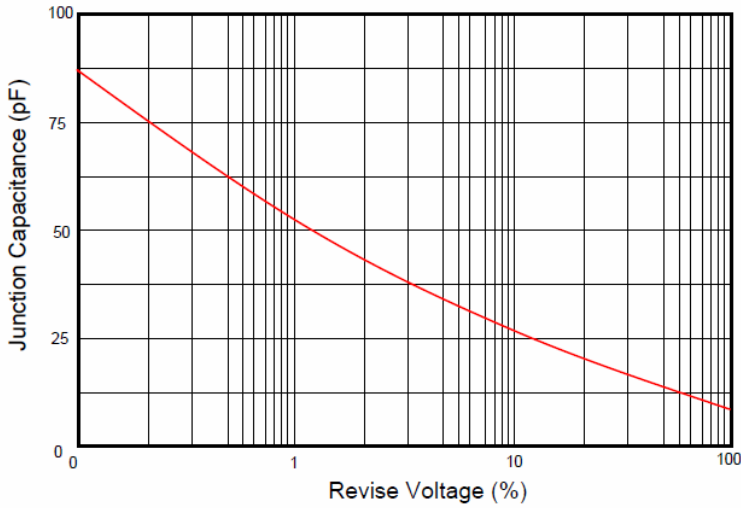
Parameter	Symbol	Ratings	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	100	V
Working Peak Reverse Voltage	$V_{RWM}$	100	V
Maximum DC Blocking Voltage	$V_R$	100	V
Average Forward Current @T <sub>J</sub> =25°C	$I_{F(AV)}$	1	A
Peak Forward Current @8.3ms Half Sine	$I_{FSM}$	10	A
Maximum Instantaneous Forward Voltage @I <sub>FM</sub> =1A	T <sub>A</sub> =25°C	0.83	V
	T <sub>A</sub> =125°C	0.68	
Maximum DC Reverse Current @Rated DC Blocking Voltage	T <sub>J</sub> =25°C	50	µA
	T <sub>J</sub> =125°C	1	mA
Typical Junction Capacitance <sup>1</sup>	C <sub>J</sub>	90	pF
Typical Thermal Resistance <sup>2</sup>	R <sub>θJA</sub>	488	°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55~150	°C

Notes:

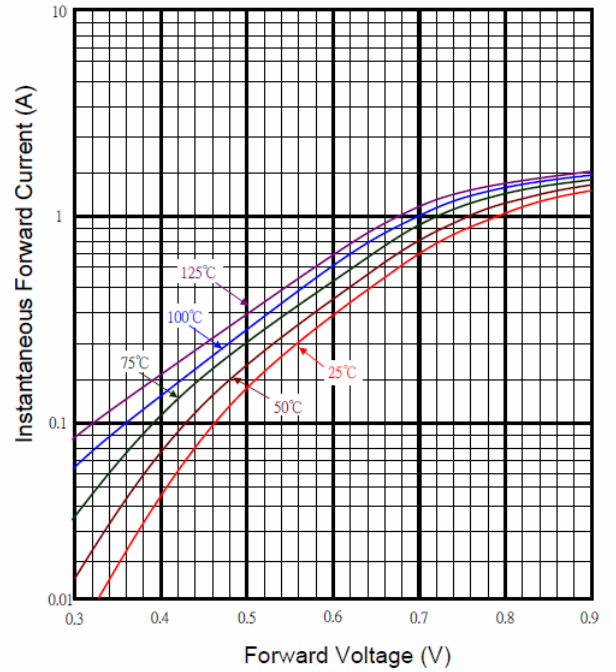
1. Measured at 1MHz and applied reverse of 0V DC.
2. FR-4 PCB, 2oz. 0.65mm×1.35mm copper pad.

**RATINGS AND CHARACTERISTIC CURVES**

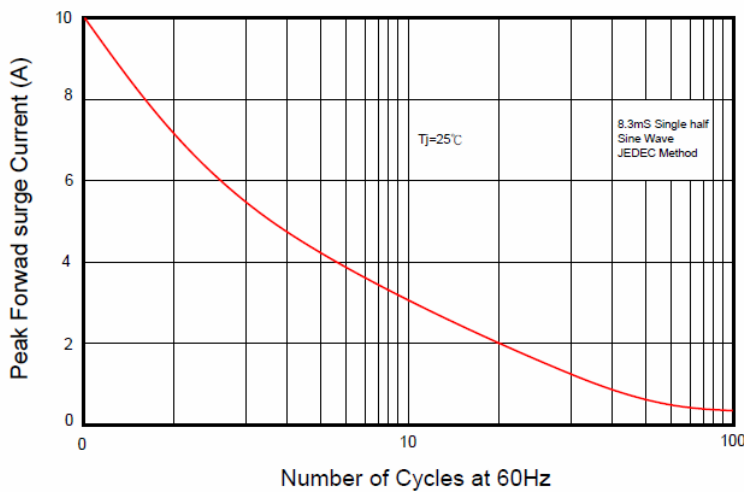
Typical Junction Capacitance



Typical Forward Characteristic



Maximum Non- Repetitive Forward Surge Current



Typical Reverse Characteristic

