

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

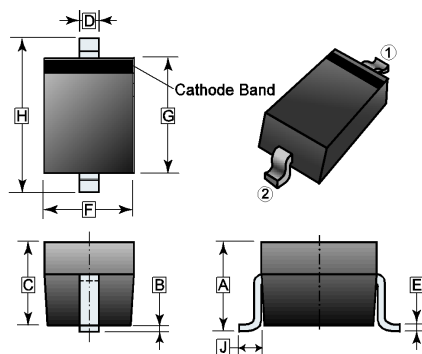
#### FEATURES

- 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



#### MARKING

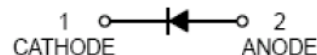
SK

SL

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			

#### PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-323	3K	7 inch



#### ORDER INFORMATION

Part Number	Type
SCS130V-C	Lead (Pb)-free and Halogen-free

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

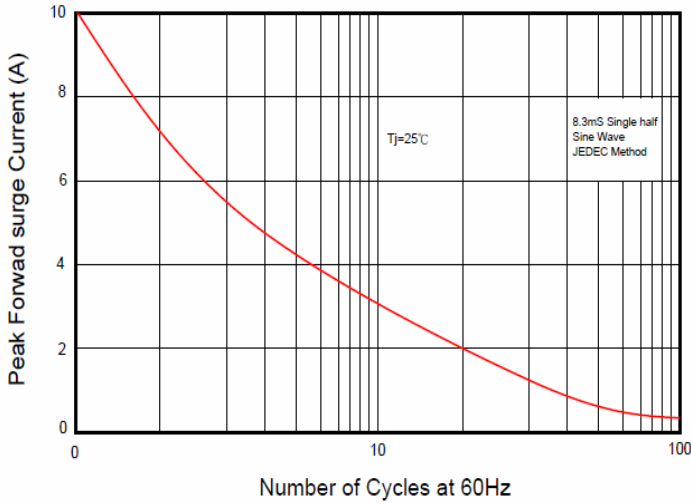
Parameter	Symbol	Ratings	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	30	V
Working Peak Reverse Voltage	V <sub>RWM</sub>	30	V
Maximum DC Blocking Voltage	V <sub>R</sub>	30	V
Average Forward Current	I <sub>F(AV)</sub>	1	A
Peak Forward Current @8.3ms Half Sine	I <sub>FSM</sub>	10	A
Maximum Instantaneous Forward Voltage @ I <sub>FM</sub> =1A	V <sub>F</sub>	T <sub>A</sub> =25°C	0.6
		T <sub>A</sub> =125°C	0.52
Maximum DC Reverse Current @ Rated DC Blocking Voltage	I <sub>R</sub>	T <sub>J</sub> =25°C	1
		T <sub>J</sub> =100°C	8
Typical Junction Capacitance <sup>1</sup>	C <sub>J</sub>	140	pF
Typical Thermal Resistance from Junction-Ambient <sup>2</sup>	R <sub>θJA</sub>	488	°C/W
Operating Junction Temperature Range	T <sub>J</sub>	-40~125	°C
Storage Temperature Range	T <sub>STG</sub>	-55~150	

Notes:

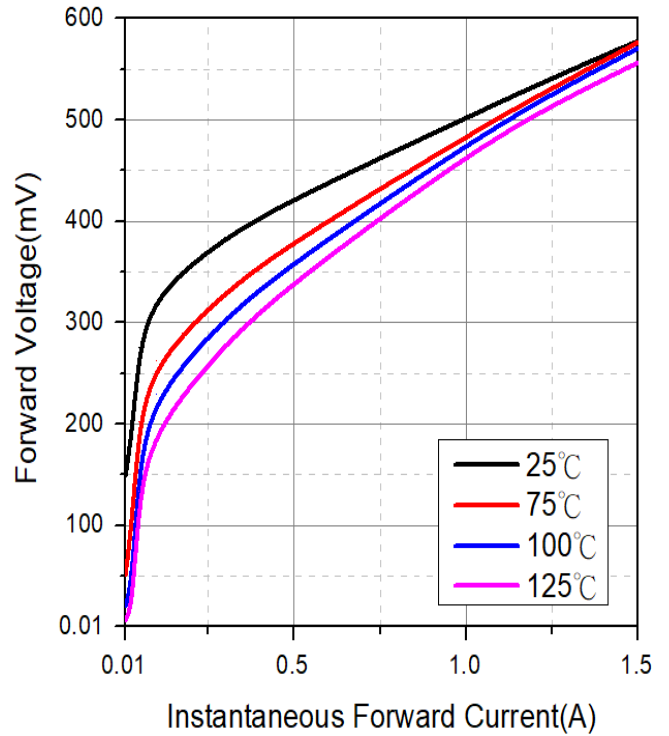
1. Measured at 1MHz and applied reverse of 0V D.C.
2. FR-4 PCB, 2oz. 0.65mmx1.35mm copper pad.

**RATINGS AND CHARACTERISTIC CURVES**

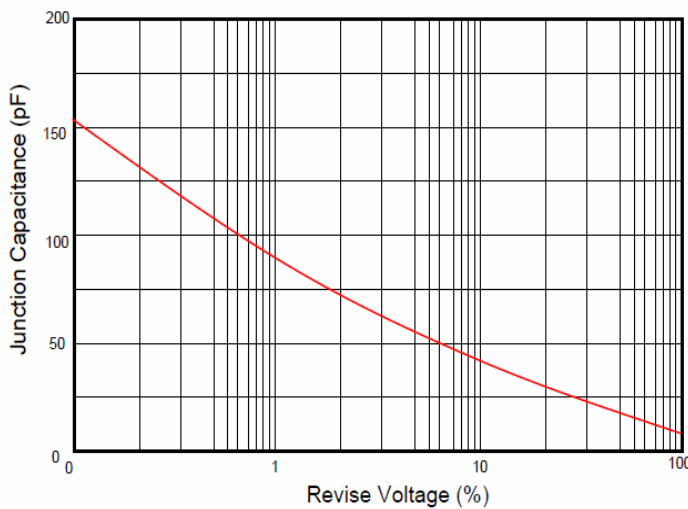
Maximum Non- Repetitive Forward Surge Current



Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic

