

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

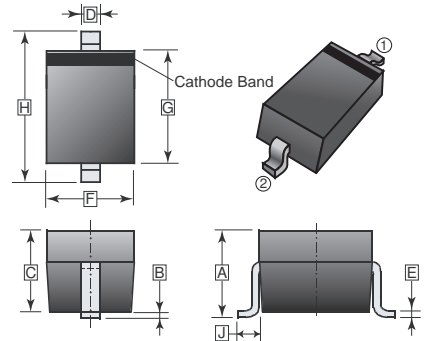
**MARKING**

BH

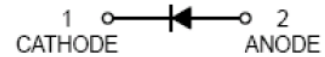
**PACKAGE INFORMATION**

Package	MPQ	Leader Size
SOD-123	3K	7 inch

**SOD-123**



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	0.94	1.35	F	1.40	1.80
B	0.10 REF.		G	2.54	2.85
C	1.00	1.30	H	3.55	3.86
D	0.30	0.78	J	0.50 REF.	
E	0.08	0.25			



**ORDER INFORMATION**

Part Number	Type
SCS0530P-C	Lead (Pb)-free and Halogen-free

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

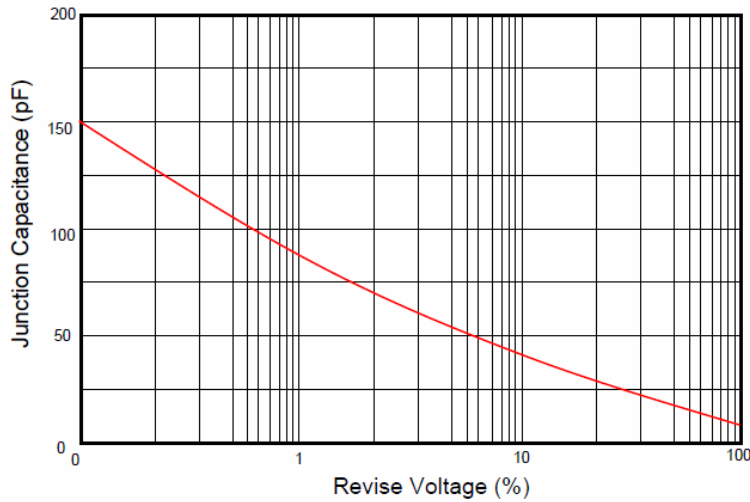
Parameter	Symbol	Ratings	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	30	V
Working Peak Reverse Voltage	V <sub>RWM</sub>	30	V
Maximum DC Blocking Voltage	V <sub>R</sub>	30	V
Average Forward Current @T <sub>J</sub> =25°C	I <sub>F(AV)</sub>	0.5	A
Peak Forward Current @8.3ms Half Sine	I <sub>FSM</sub>	10	A
Maximum Instantaneous Forward Voltage @I <sub>FM</sub> =0.5A	V <sub>F</sub>	T <sub>A</sub> =25°C	0.5
		T <sub>A</sub> =125°C	0.38
Maximum DC Reverse Current @Rated DC Blocking Voltage	I <sub>R</sub>	T <sub>J</sub> =25°C	0.1
		T <sub>J</sub> =125°C	5
Typical Junction Capacitance <sup>1</sup>	C <sub>J</sub>	160	pF
Typical Thermal Resistance from Junction-Ambient <sup>2</sup>	R <sub>θJA</sub>	310	°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55~150	°C

Notes:

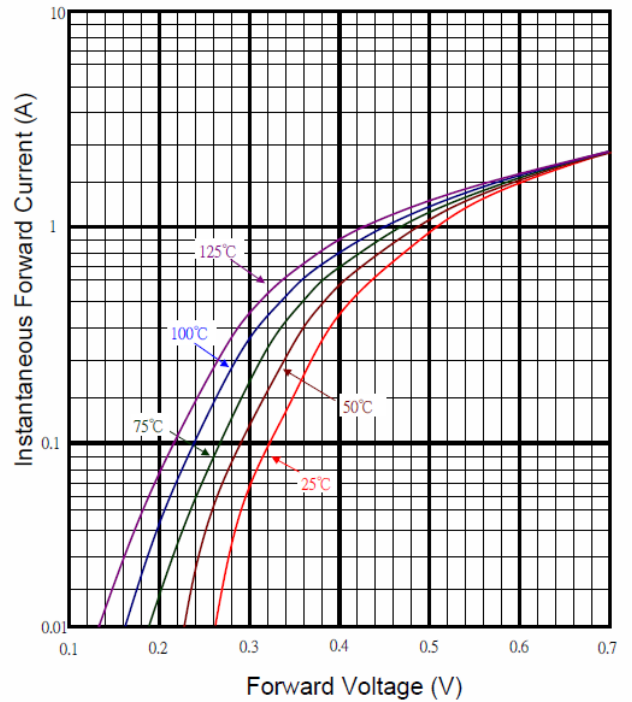
1. Measured at 1MHZ and applied reverse of 0V DC.
2. FR-4 PCB, 2oz. 0.7mmx1.2mm copper pad.

**RATINGS AND CHARACTERISTIC CURVES**

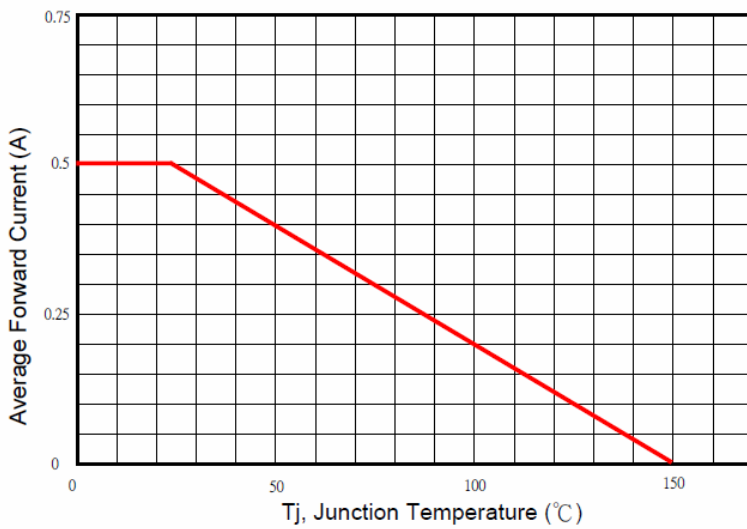
Typical Junction Capacitance



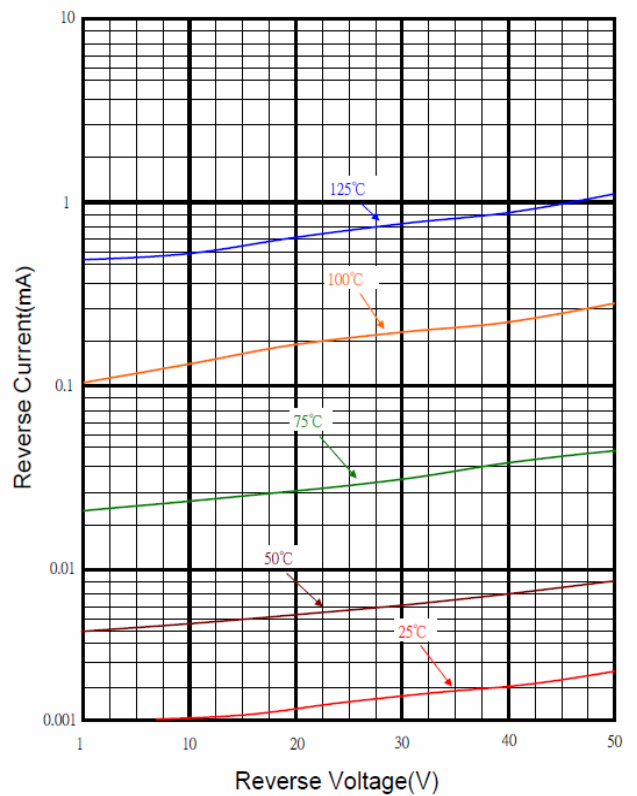
Typical Forward Characteristic



Typical Forward Current Derating Curve



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current

