

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

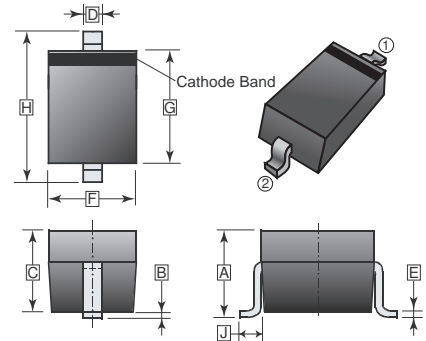
**MECHANICAL DATA**

- 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

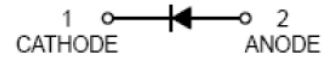
**MARKING**

Part Number	MARKING
SCS220P-C	SJ
SCS230P-C	SK
SCS240P-C	SL

**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			



**PACKAGE INFORMATION**

Package	MPQ	Leader Size
SOD-123	3K	7 inch

**ORDER INFORMATION**

Part Number	Type
SCS220P-C~SCS240P-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, derate current by 20%.)

Parameter	Symbol	Part Number			Unit
		SCS220P-C	SCS230P-C	SCS240P-C	
Peak Repetitive Peak reverse voltage	$V_{RRM}$	20	30	40	V
Working Peak Reverse Voltage	$V_{RWM}$	20	30	40	V
Maximum DC Blocking Voltage	$V_R$	20	30	40	V
Average Forward Current @ $T_J=25^\circ\text{C}$	$I_{F(AV)}$	2			A
Peak Forward Current @8.3ms Half Sine	$I_{FSM}$	10			A
Maximum Instantaneous Forward Voltage @ $T_A=25^\circ\text{C}$	$I_{FM}=0.5\text{A}$	0.38	0.4	0.42	V
	$I_{FM}=1\text{A}$	0.45	0.47	0.5	
	$I_{FM}=2\text{A}$	0.65	0.68	0.72	
Maximum DC Reverse Current @ Rated DC Blocking Voltage, $T_J=25^\circ\text{C}$	$I_R$	1			mA
Typical Junction Capacitance <sup>1</sup>	$C_J$	215			pF
Operating and Storage Temperature Range	$T_J, T_{STG}$	125, -55~150			°C

Note:  
 1. Measured at 1MHz and applied reverse voltage of 5V D.C.

**RATINGS AND CHARACTERISTIC CURVES**

FIG.1-TYPICAL FORWARD CHARACTERISTICS

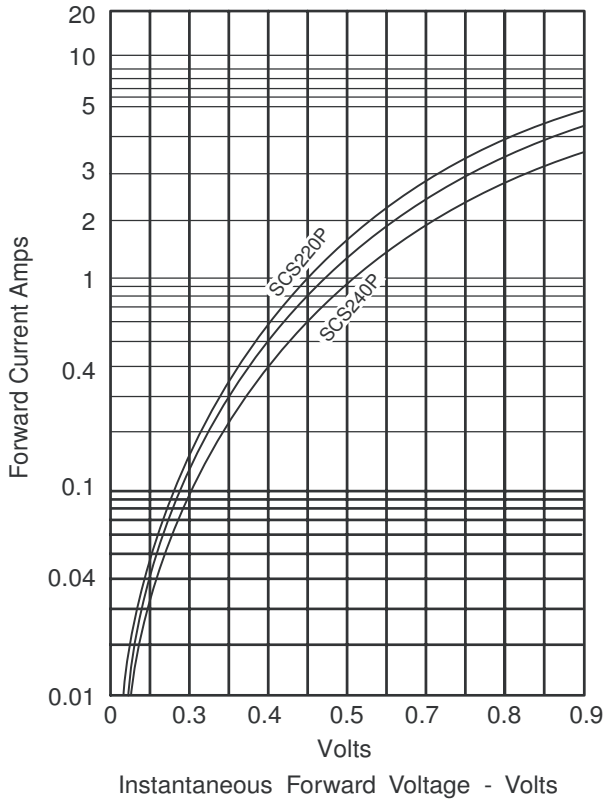


FIG.2-JUNCTION CAPACITANCE

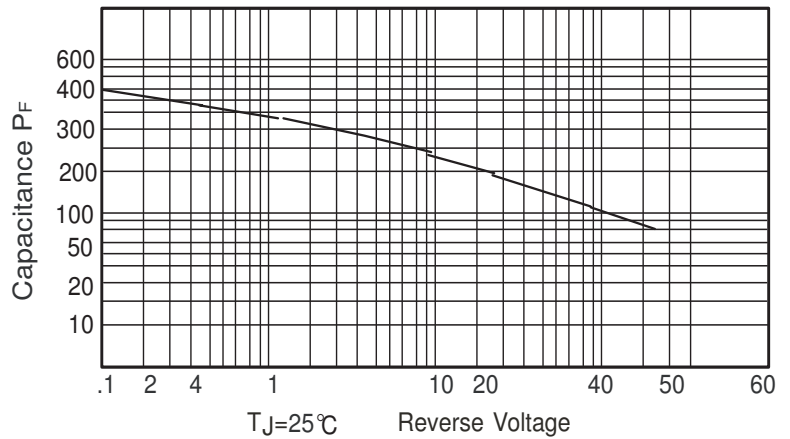


FIG.3-FORWARD DERATING CURVE

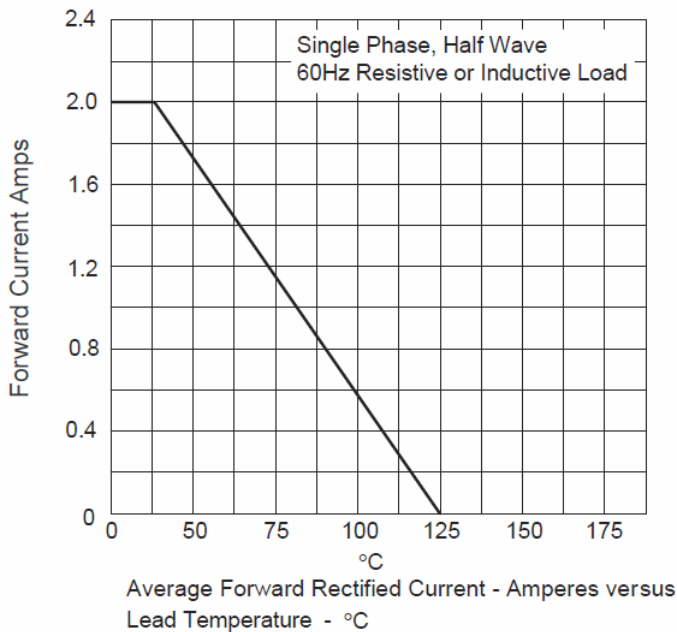


FIG.4-PEAK FORWARD SURGE CURRENT

