

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

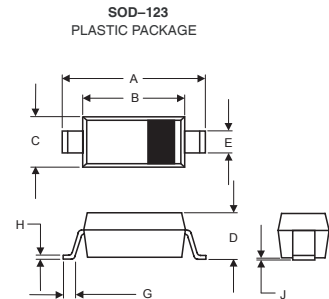
## FEATURES

- 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: Axial Leads, Solderable per MIL-STD-202 method 208 Guaranteed
- Polarity: Color Band Denotes Cathode End
- Mounting Position: Any

### PACKAGE DIMENSIONS



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	3.55	3.85	0.140	0.152
B	2.55	2.85	0.100	0.112
C	1.40	1.80	0.550	0.071
D	-----	1.25	-----	0.049
E	0.30	0.78	0.120	0.031
G	0.15	-----	0.006	-----
H	-----	0.25	-----	0.001
J	-----	0.15	-----	0.006

## MARKING CODE

SCS220P	<b>SJ</b>
SCS230P	<b>SK</b>
SCS240P	<b>SL</b>

## 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%.

TYPE NUMBER	SYMBOL	SCS220P	SCS230P	SCS240P	UNITS
Peak Repetitive Peak reverse voltage	$V_{RRM}$	20	30	40	V
Working Peak Reverse Voltage	$V_{RWM}$				
Maximum DC Blocking Voltage	$V_R$				
Average Forward Current @ $T_J=25^\circ\text{C}$	$I_{F(AV)}$	2.0			A
Peak Forward Current @ 8.3 ms Half Sine	$I_{FSM}$	10			A
Maximum Instantaneous Forward Voltage	$V_F$	0.38	0.40	0.42	V
$V_F @ I_{FM} = 0.5 \text{ A}, T_A = 25^\circ\text{C}$		0.45	0.47	0.50	
$V_F @ I_{FM} = 1.0 \text{ A}, T_A = 25^\circ\text{C}$		0.65	0.68	0.72	
Maximum DC Reverse Current	$I_R$	1			mA
At Rated DC Blocking Voltage @ $T_J = 25^\circ\text{C}$					
Typical Junction Capacitance	$C_J$	215			pF
Operating Temperature Range	$T_J$	-50 ~ + 125			°C
Storage temperature	$T_{STG}$	-65 ~ + 150			°C

### NOTES:

1. Measured at 1MHz and applied reverse voltage of 5.0 V D.C.
2. Thermal Resistance Junction to Ambient.

**RATINGS AND CHARACTERISTIC CURVES**

FIG.1-TYPICAL FORWARD CHARACTERISTICS

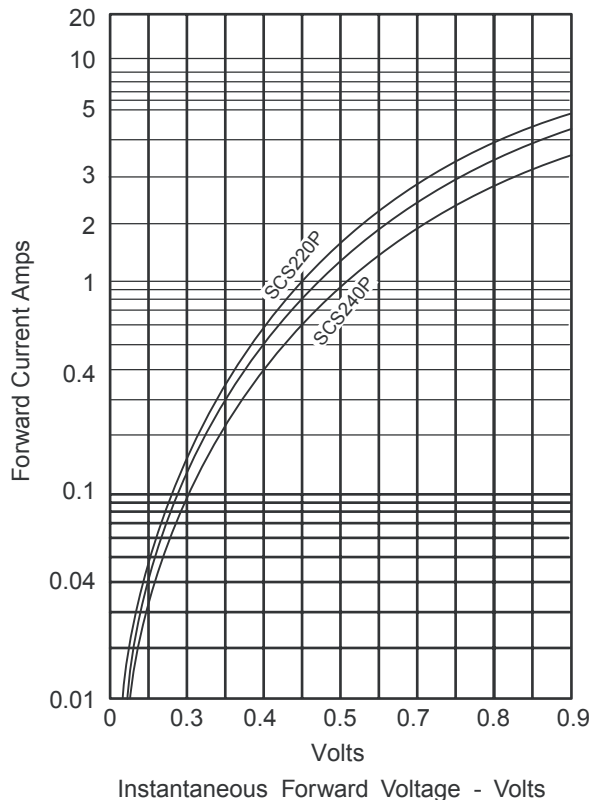


FIG.2-JUNCTION CAPACITANCE

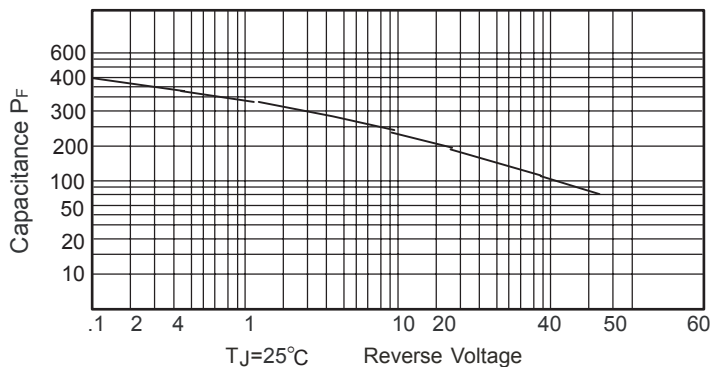


FIG.3-FORWARD DERATING CURVE

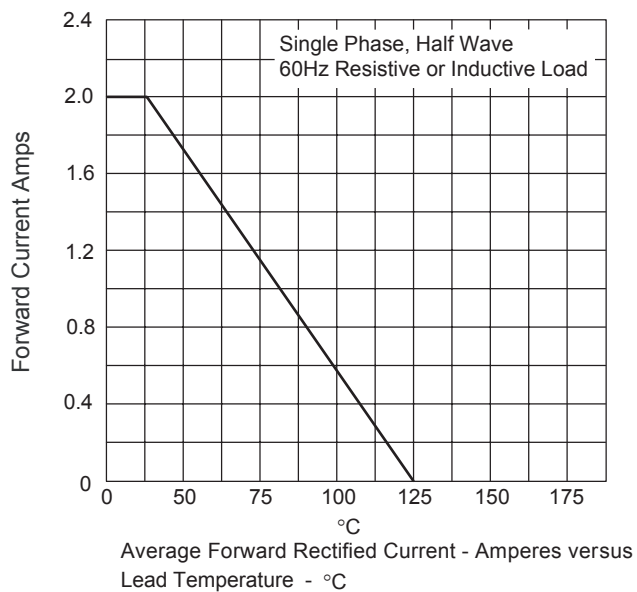


FIG.4-PEAK FORWARD SURGE CURRENT

