

RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

FEATURES

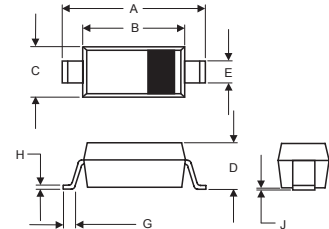
- High Current Capability
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Higher Temp Soldering : 250°C for 10 Seconds at Terminals
- Low Forward Voltage

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

SOD-123
PLASTIC PACKAGE



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	SJ
SCS230P	SK
SCS240P	SL

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

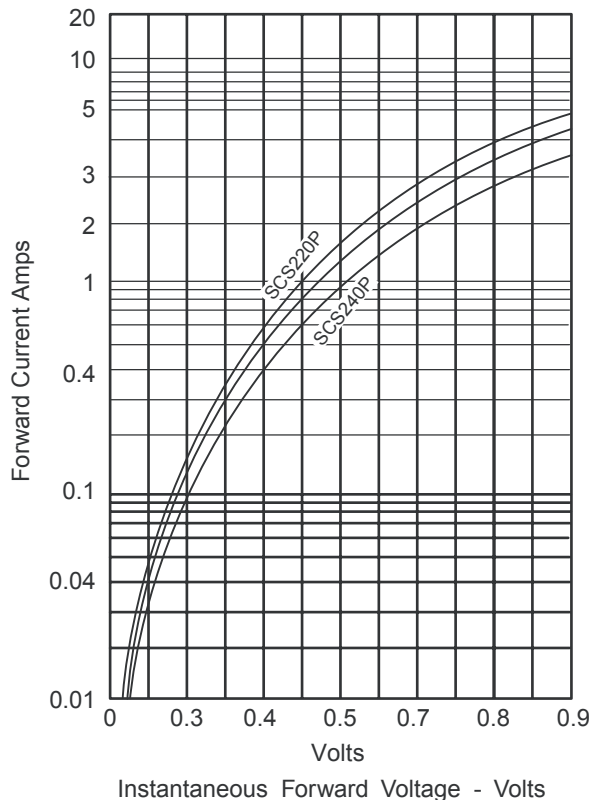


FIG.2-JUNCTION CAPACITANCE

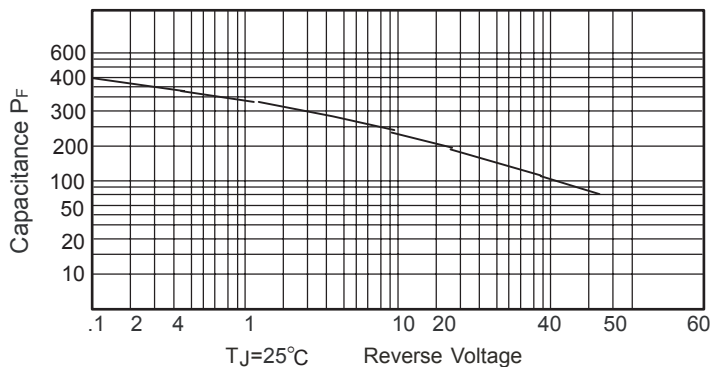


FIG.3-FORWARD DERATING CURVE

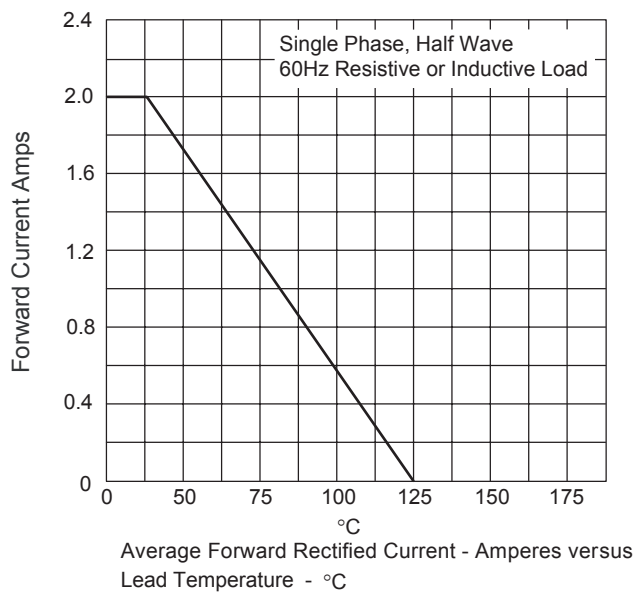


FIG.4-PEAK FORWARD SURGE CURRENT

