Elektronische Bauelemente

SCS220P-C~SCS240P-C

Voltage 20V~40V

2A Schottky Barrier Rectifiers

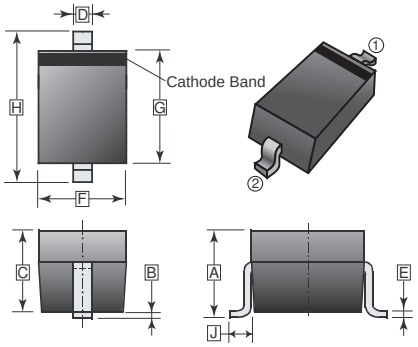
RoHS Compliant Product

A suffix of “-C” specifies halogen & lead-free

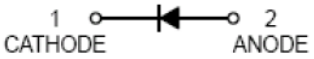
FEATURES

- High Current Capability
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Higher Temp Soldering: 250℃ for 10 Seconds at Term inals
- Low Forward Voltage

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			



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

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℃ ambient temperature unless otherwise s pecified. 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℃		$I_{F(AV)}$	2			A
Peak Forward Current @8.3ms Half Sine		I_{FSM}	10			A
Maximum Instantaneous Forward Voltage @T_A=25℃	I_{FM}=0.5A	V_F	0.38	0.4	0.42	V
	I_{FM}=1A		0.45	0.47	0.5	
	I_{FM}=2A		0.65	0.68	0.72	
Maximum DC Reverse Current @Rated DC Blocking Voltage, T_J=25℃		I_R	1			mA
Typical Junction Capacitance [1]		C_J	215			pF
Operating and Storage Temperature Range		T_J, T_{STG}	125, -55~150			℃

Note:

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

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RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CHARACTERISTICS

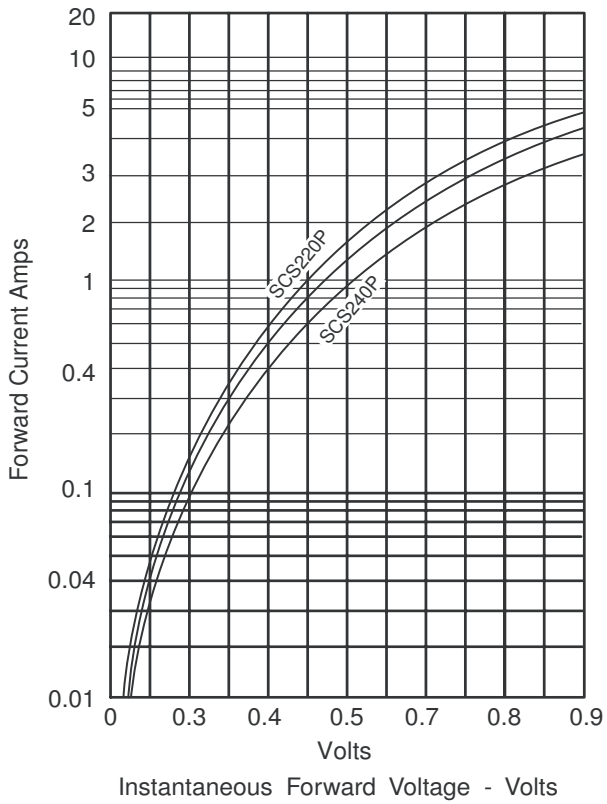


FIG.2-JUNCTION CAPACITANCE

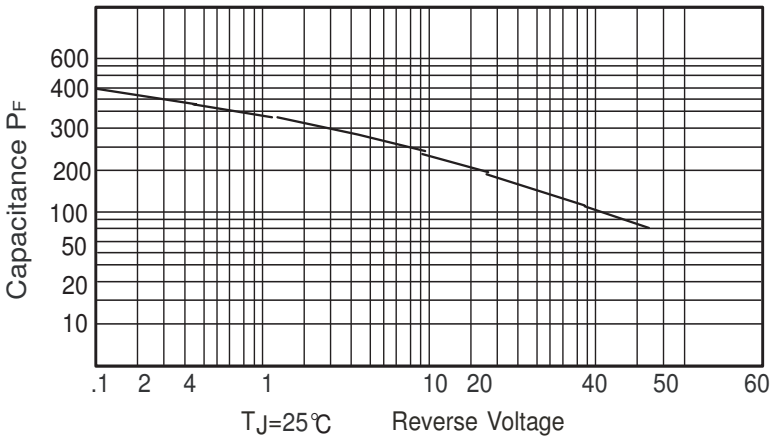


FIG.3-FORWARD DERATING CURVE

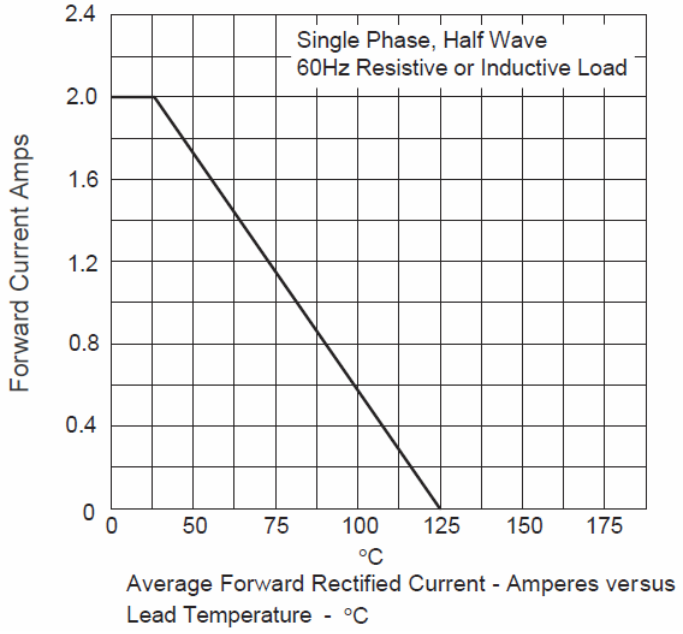


FIG.4-PEAK FORWARD SURGE CURRENT

