Elektronische Bauelemente

SCS120V

1.0Amp 20V Schottky Barrier Rectifiers

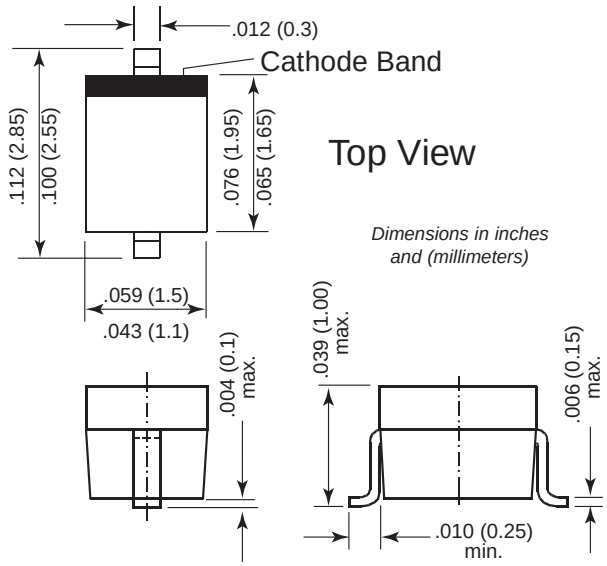
RoHS Compliant Product

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

FEATURES

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

SOD-323(SC-76)



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 Code : SJ

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

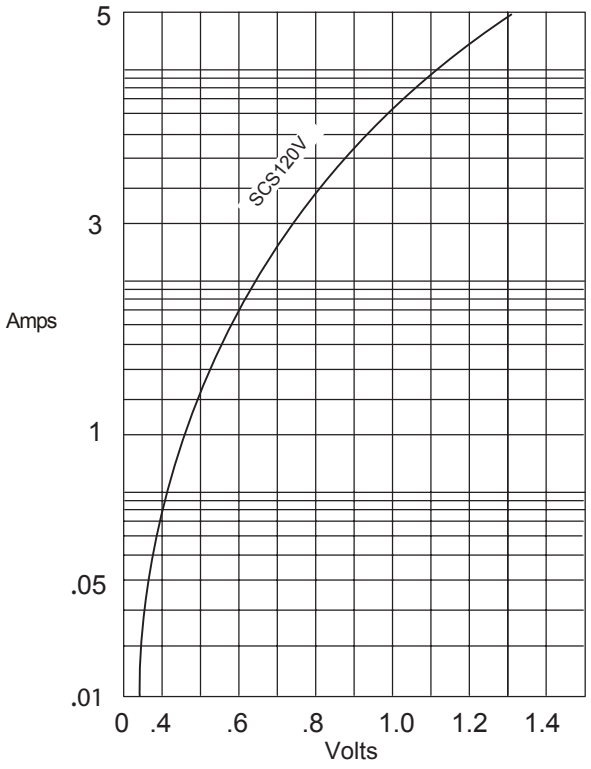
Rating 25°C ambient temperature unless otherwise specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	SCS120V	UNITS
Maximum Recurrent Peak Reverse Voltage	20	V
Working Peak Reverse Voltage	20	V
Maximum DC Blocking Voltag	20	V
Average Forward Current ($I_{F(AV)}$@ T_J=25°C)	1.0	A
Reak Forward Current (I_{FSM}@ 8.3ms half sine)	5	A
Maximum Instantaneous Forward Voltage (V_F@I_{FM} = 1.0A , T_A = 25°C)	0.45	V
Maximum Instantaneous Forward Voltage (V_F@I_{FM} = 3.0A , T_A = 25°C)	0.75	V
Maximum DC Reverse Current At Rated DC Blocking Voltage (I_R @ T_J = 25°C)	1.0	mA
Typical Junction Capacitance (C_J)	120	pF
Operating Temperature Range TJ	-50 ~ +150	°C
Storage Temperature Range TSTG	-65 ~ +175	°C

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

RATING AND CHARACTERISTIC CURVES

FIG.1 TYPICAL FORWARD CHARACTERISTICS



Instantaneous Forward Voltage - Volts

FIG.2-JUNCTION CAPACITANCE

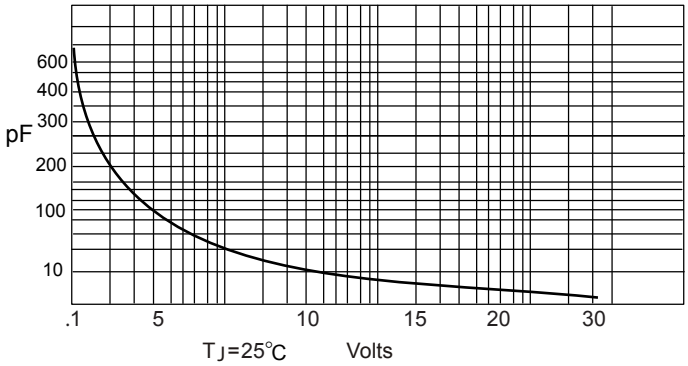
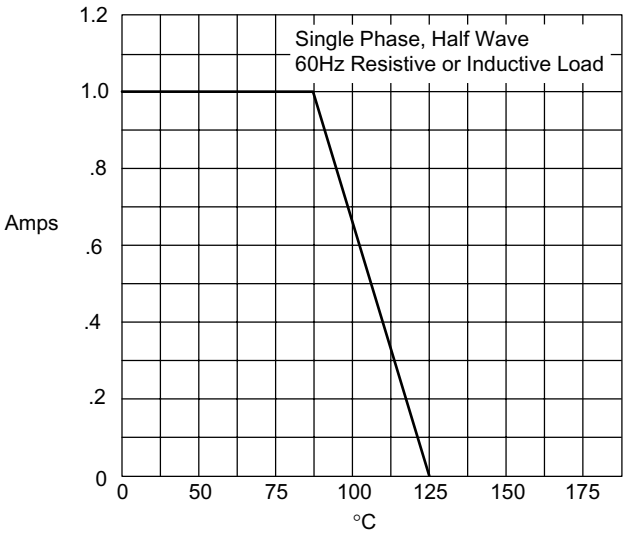
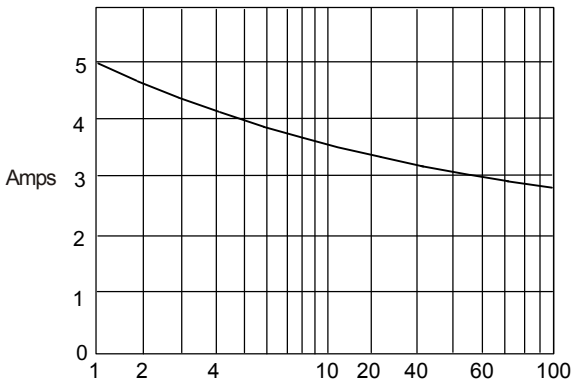


FIG.3-FORWARD DERATING CURVE



Average Forward Rectified Current - Amperes Versus Juntion Temperature

FIG.4-PEAK FORWAED SURGE CURRENT



Peak Forward Surge Current - Amperes *versus* Number Of Cycles At 60Hz - Cycles