

RoHS Compliant Product

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

FEATURES

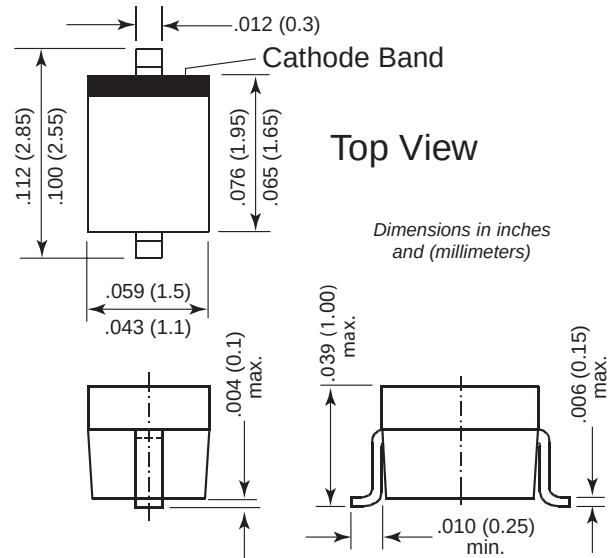
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Higher Temp Soldering : 260 °C for 10 Seconds At Terminals
- Low Forward Voltage

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 Code: SL



SOD-323(SC-76)



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	SCS157V	UNITS
Maximum Recurrent Peak Reverse Voltage	40	V
Working Peak Reverse Voltage	40	V
Maximum DC Blocking Voltage	40	V
Average Forward Current ($I_{F(AV)}$ @ $T_J = 90^\circ\text{C}$)	0.35	A
Peak Forward Current (I_{FSM} @ 8.3ms half sine)	5	A
Maximum Instantaneous Forward Voltage (V_F @ $I_{FM} = 350\text{mA}$, $T_A = 25^\circ\text{C}$)	0.35	V
Maximum Instantaneous Forward Voltage (V_F @ $I_{FM} = 1.0\text{A}$, $T_A = 25^\circ\text{C}$)	0.55	V
Maximum DC Reverse Current At Rated DC Blocking Voltage (I_R @ $T_J = 25^\circ\text{C}$)	1.0	mA
Typical Junction Capacitance (C_J)	120	pF
Operating Temperature Range T_J	-50 ~ +150	°C
Storage Temperature Range T_{STG}	-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

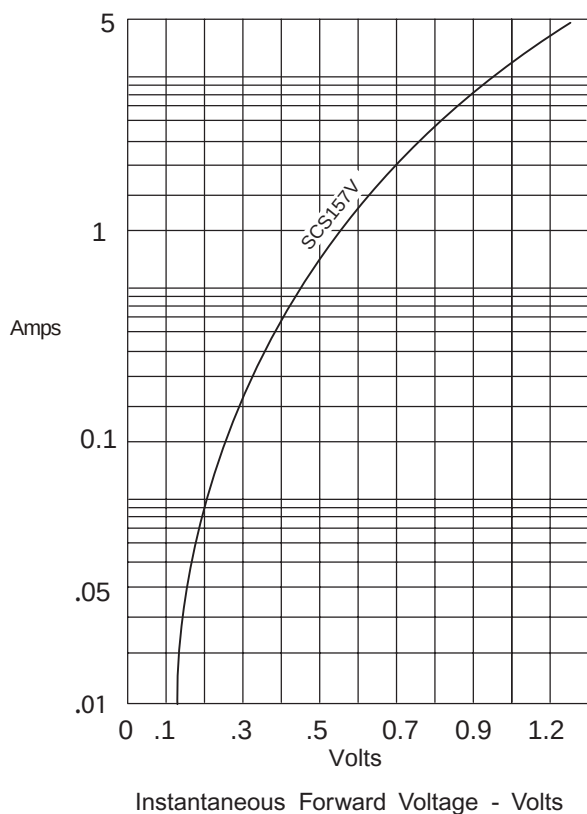


FIG.2-JUNCTION CAPACITANCE

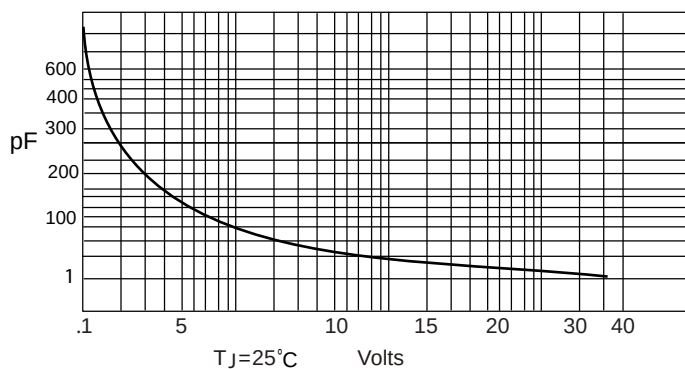


FIG.3-FORWARD DERATING CURVE

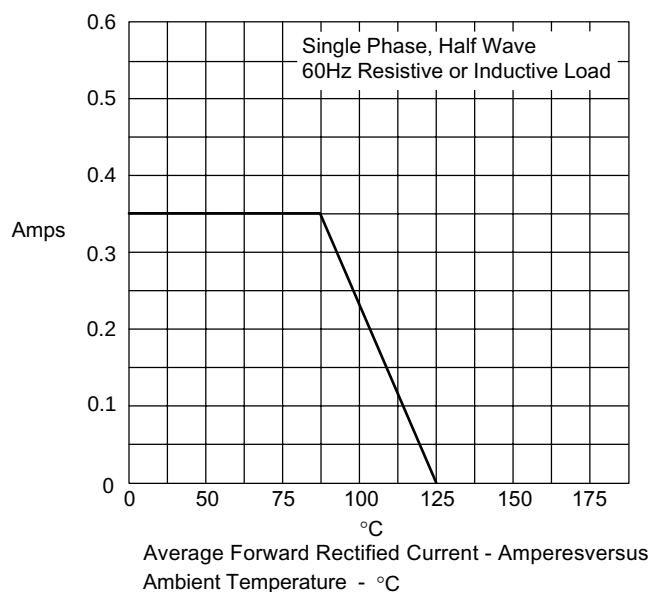


FIG.4-PEAK FORWARD SURGE CURRENT

