

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

FEATURES

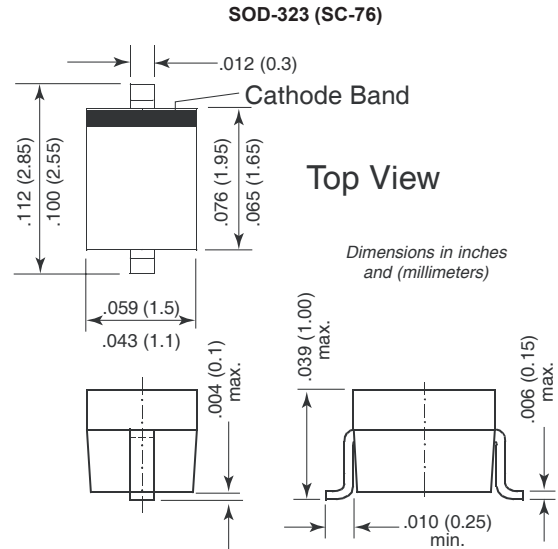
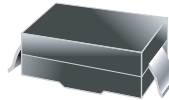
- High Current Capability
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Higher Temp Soldering : 250°C for 10 Seconds at Terminals
- Low Forward Voltage

MECHANICAL DATA

- Case: Molded Plastic
- Epoxy: UL 94V-0 Rate Flame Retardant
- Lead: Solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color Band Denotes Cathode End
- Mounting Position: Any

MARKING CODE

SCS160V: **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%.

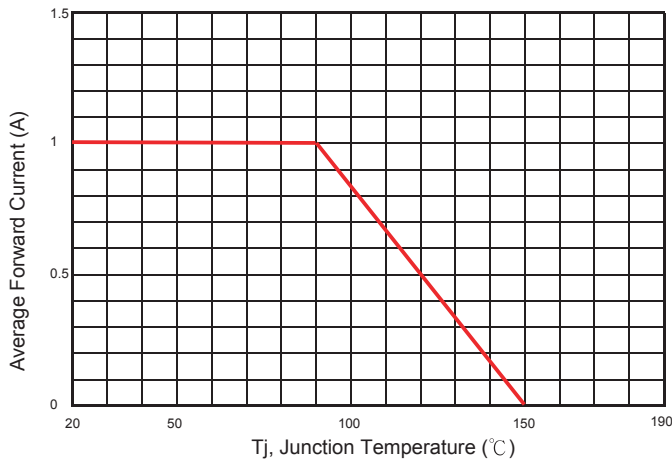
TYPE NUMBER	SYMBOL	VALUE	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	60	V
Working Peak Reverse Voltage	V_{RWM}		
Maximum DC Blocking Voltage	V_R		
Average Forward Current @ $T_J=25^\circ\text{C}$	$I_{F(AV)}$	1.0	A
Peak Forward Current @ 8.3 ms Half Sine	I_{FSM}	5	A
Maximum Instantaneous Forward Voltage $I_{FM} = 1.0 \text{ A}, T_A = 25^\circ\text{C}$	V_F	0.65	V
Maximum Instantaneous Forward Voltage $I_{FM} = 3.0 \text{ A}, T_A = 25^\circ\text{C}$	V_F	0.98	V
Maximum DC Reverse Current At Rated DC Blocking Voltage @ $T_J = 25^\circ\text{C}$	I_R	0.1	mA
Typical Junction Capacitance	C_J	60	pF
Operating Temperature Range	T_J	- 50 ~ + 150	°C
Storage temperature	T_{STG}	- 65 ~ + 175	°C

NOTES:

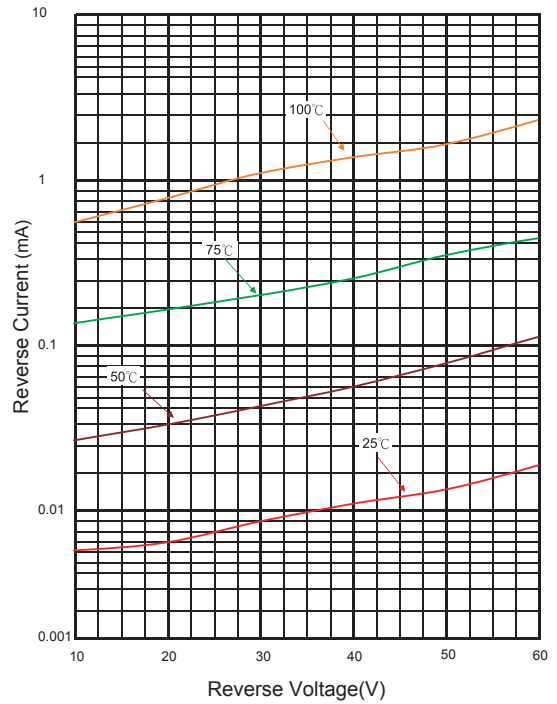
1. Measured at 1MHz and applied reverse voltage of 5.0 V D.C.
2. Thermal Resistance Junction to Case.

RATINGS AND CHARACTERISTIC CURVES

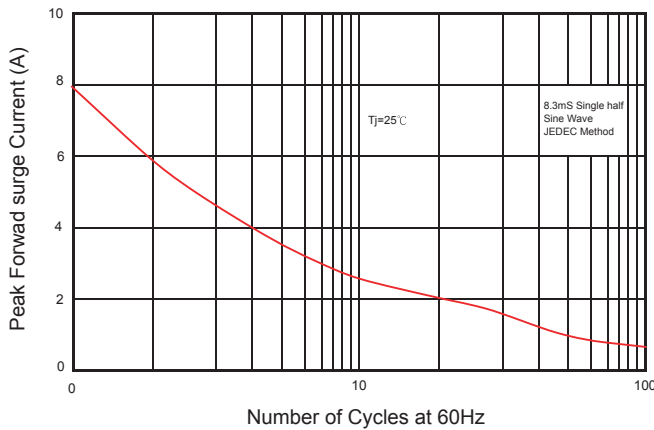
Typical Forward Current Derating Curve



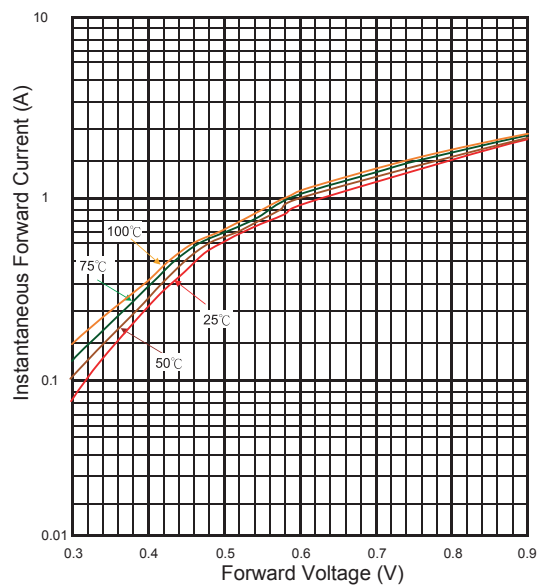
Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current



Typical Forward Characteristic



Typical Junction Capacitance

