

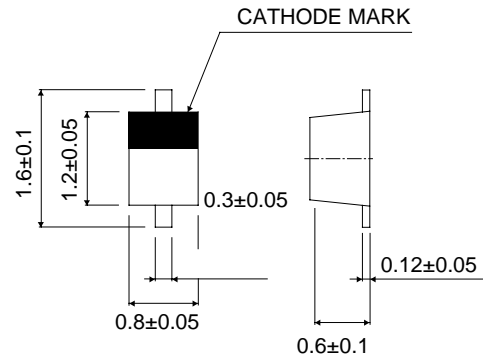
RoHS Compliant Product

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

SOD-523

● FEATURES

- Low current rectification and high speed switching
- Extremely small surface mounting type
- Low I_R . ($I_R = 0.1\mu A$ Type)
- High reliability



Dimensions in millimeters

● MECHANICAL DATA

- Case: SOD-523, Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: See Diagrams Below
- Mounting Position: Any

● 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	SCS520S	UNITS
DC Reverse Voltage	V_R	30	V
Mean Rectifying Current	I_F	200	mA
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	1	A
Maximum Instantaneous Forward Voltage @ $I_F=200$ mA	V_F	0.6 (Max.)	V
Maximum DC Reverse Current, $T_a=25^\circ C$ @ $V_R=10$ V	I_R	1.0 (Max.)	μA
Operating Temperature Range	T_J	125	$^\circ C$
Storage Temperature Range	T_{STG}	-40 ~ +125	$^\circ C$

Note: ESD sensitive product handling required

● ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}\text{C}$)

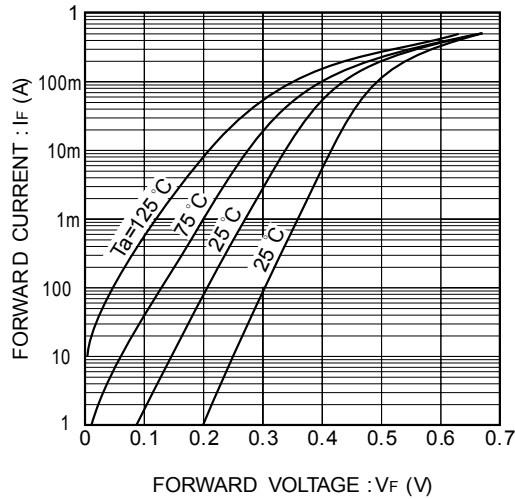


Fig. 1 Forward characteristics

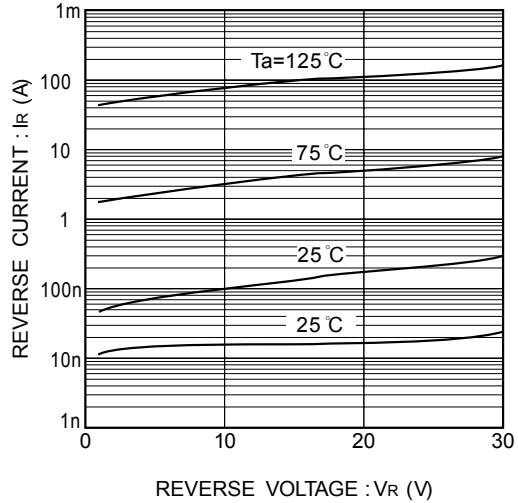


Fig. 2 Reverse characteristics

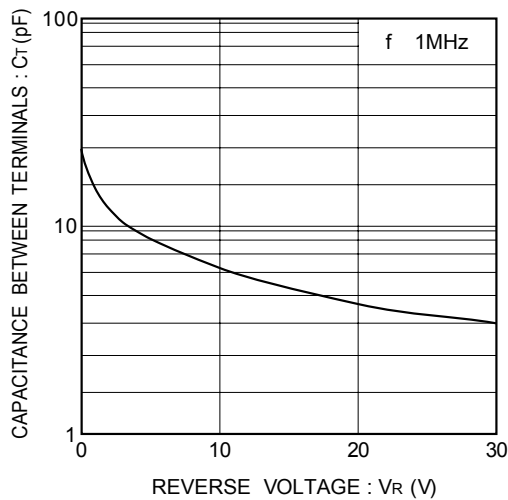


Fig. 3 Capacitance between terminals characteristics

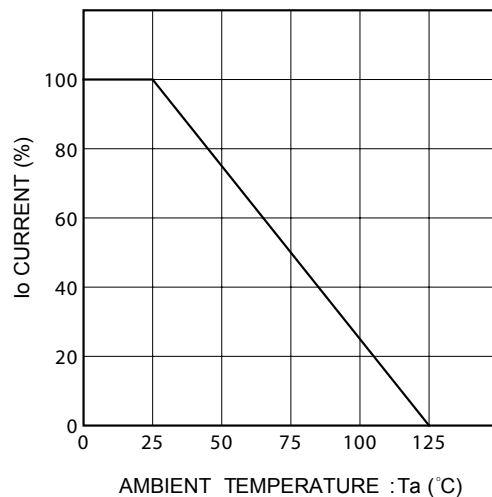


Fig 4. Derating curve (mounting on glass epoxy PCBs)