

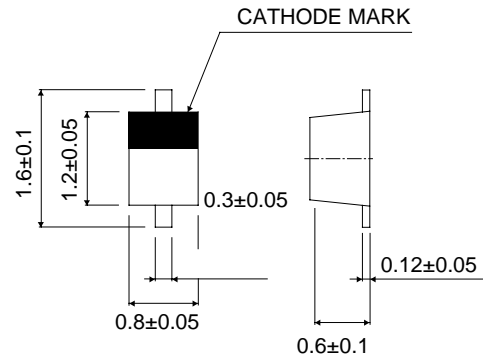
RoHS Compliant Product

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.)	$\mu A$
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 ( Ta=25°C )**

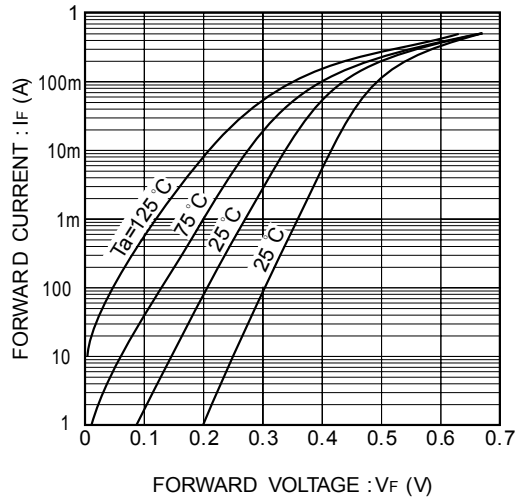


Fig. 1 Forward characteristics

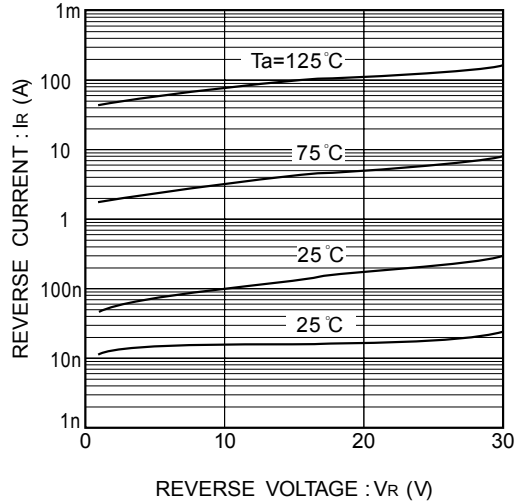


Fig. 2 Reverse characteristics

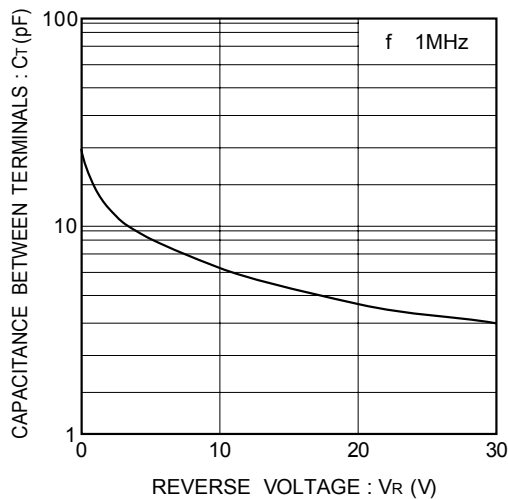


Fig. 3 Capacitance between terminals characteristics

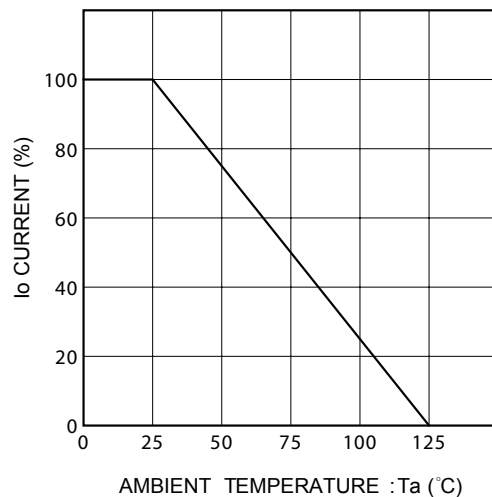


Fig 4. Derating curve (mounting on glass epoxy PCBs)