

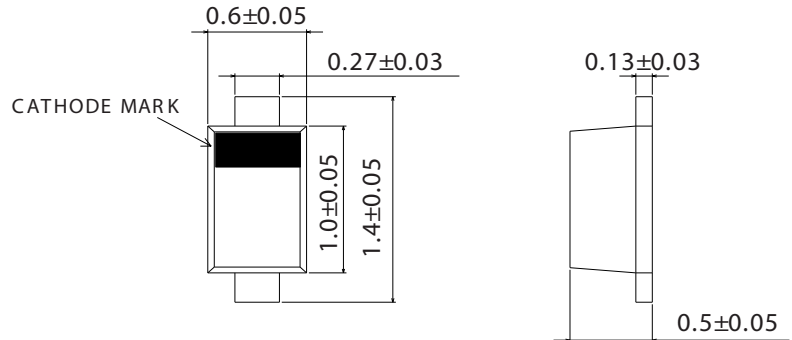
RoHS Compliant Product

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

SOD-723

● FEATURES

- Rectifying small power.
- Ultra small mold type.
- High reliability
- Silicon epitaxial planer



Dimensions in millimeters

● MECHANICAL DATA

- Case: SOD-723, Molded Plastic
- Terminals: Solderable per MIL-STD-202 Method 208
- Polarity: See Diagrams Below
- Mounting Position: Any

● MARKING CODE

E

● 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	SCS520G	UNITS
Peak Reverse Voltage	V_{RM}	30	V
DC Reverse Voltage	V_R	25	V
Mean Rectifying Current	I_F	100	mA
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	500	mA
Maximum Instantaneous Forward Voltage @ $I_F = 10$ mA	V_F	0.45 (Max.)	V
Maximum DC Reverse Current, $T_a = 25^\circ\text{C}$ @ $V_R = 10$ V	I_R	0.5 (Max.)	μA
Capacitance between terminals @ $V_R = 10$ V, $f = 1$ MHz	C_T	4.0	pF
Operating Temperature Range	T_J	125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-40 ~ +125	$^\circ\text{C}$

Note: ESD sensitive product handling required

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

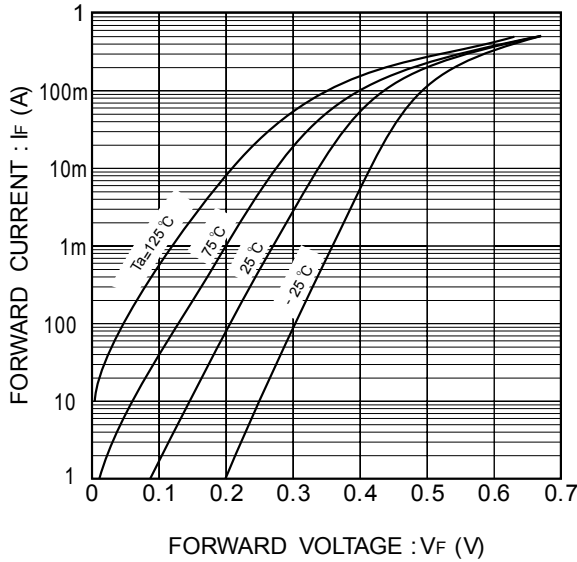


Fig. 1 Forward characteristics

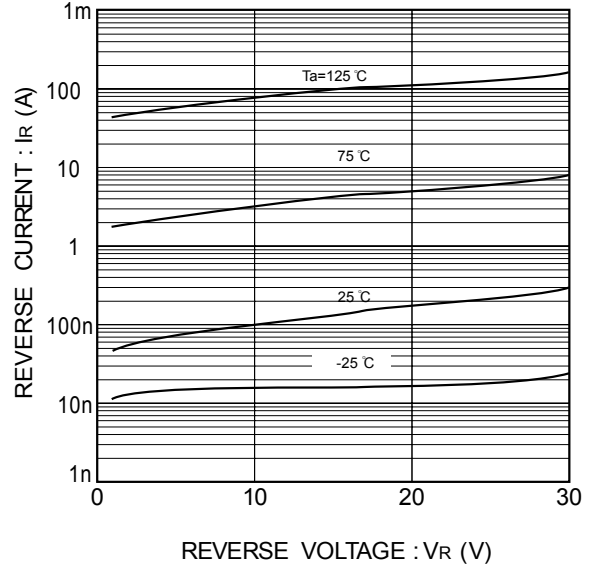


Fig. 2 Reverse characteristics

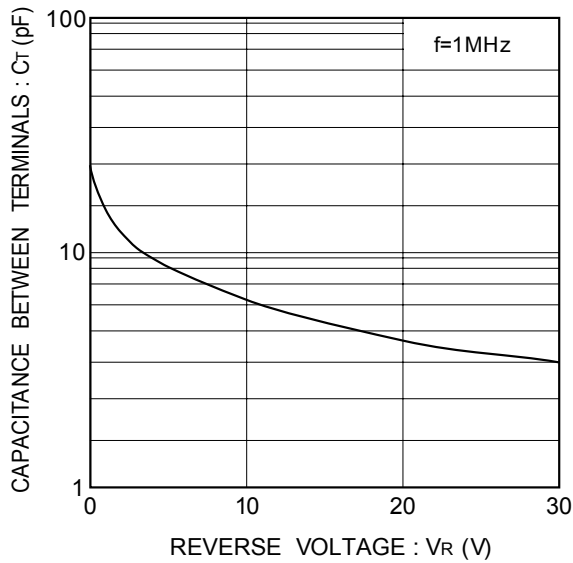


Fig. 3 Capacitance between terminals characteristics

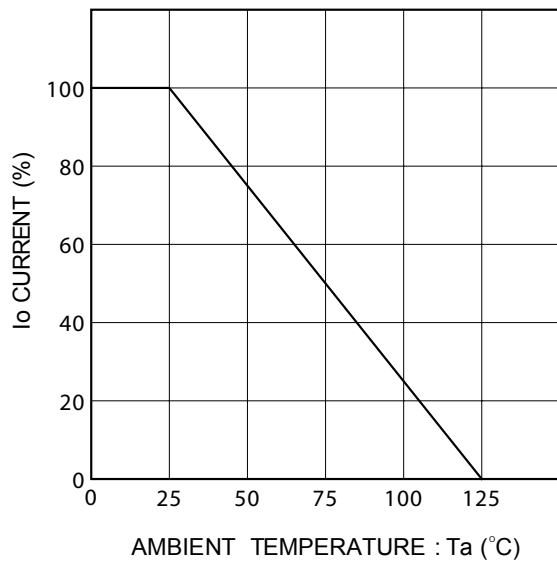


Fig 4. Derating curve (mounting on glass epoxy PCBs)