

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

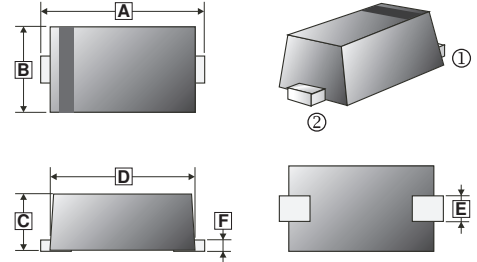
FEATURES

- Small Surface Mounting Type
- Low Reverse Current and Low Forward Voltage
- High Reliability

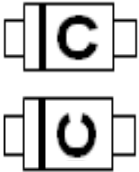
SOD-523

MECHANICAL DATA

- Case: SOD-523, Molded Plastic
- Lead: Lead solderable per MIL-STD-202 method 208 guaranteed
- Polarity: See Diagrams Below
- Mounting position: Any



MARKING



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.50	1.70	D	1.10	1.30
B	0.70	0.90	E	0.25	0.35
C	0.50	0.77	F	0.07	0.20

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-523	3K	7 inch

ORDER INFORMATION

Part Number	Type
SCS521S-C	Lead (Pb)-free and Halogen-free

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, de-rate current by 20%.)

Parameter	Symbol	Rating	Unit
DC Reverse Voltage	V_R	30	V
Mean Rectifying Current	I_o	200	mA
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	1	A
Power Dissipation	P_D	200	mW
Maximum Instantaneous Forward Voltage @ $I_F=200mA$	V_F	0.5	V
Maximum DC Reverse Current @ $V_R=10V$	I_R	30	μA
Operating Temperature Range	T_J	125	°C
Storage Temperature Range	T_{STG}	-40~125	°C

RATINGS AND CHARACTERISTIC CURVES

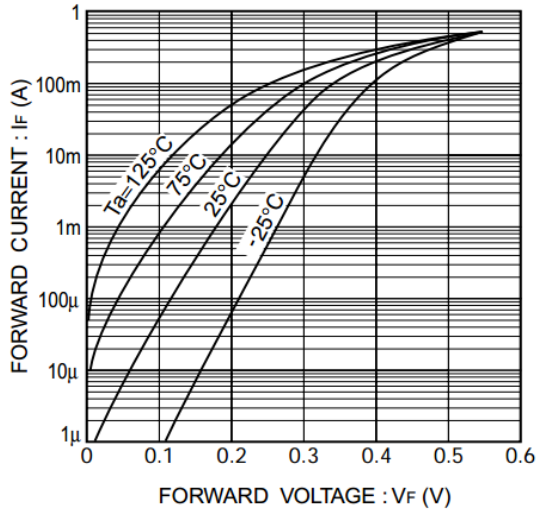


Figure 1. Forward characteristics

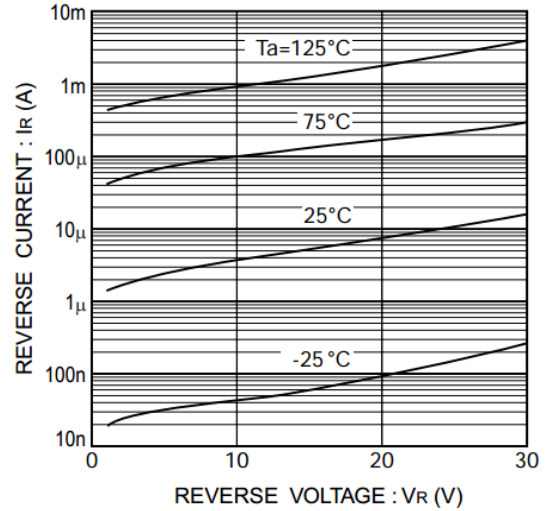


Figure 2. Reverse characteristics

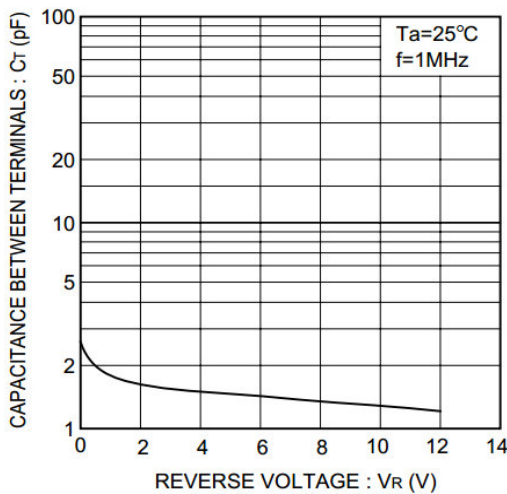


Fig. 3 Capacitance between terminals characteristics

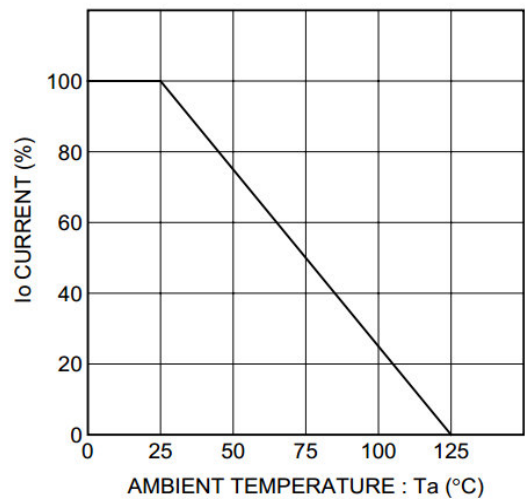
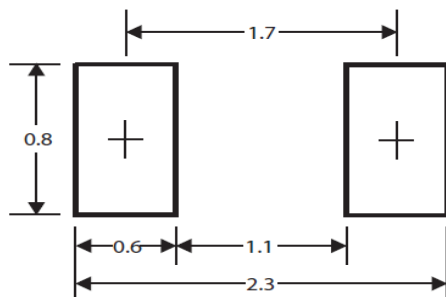


Fig. 4 Derating curve (mounting on glass epoxy PCBs)



*Dimensions in millimeters

Fig. 5 Mounting Pad Layout