

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

FEATURES

- Extremely Low V_F
- Extremely thin package
- Low stored charge
- Majority carrier conduction

MECHANICAL DATA

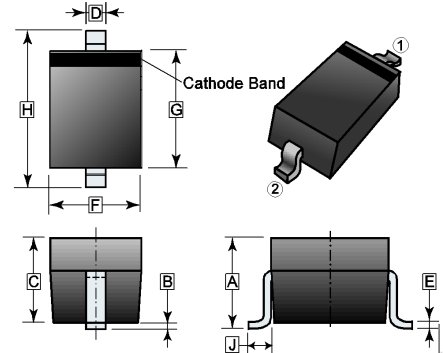
- Case: Molded plastic, JEDEC SOD-323
- Terminal: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Indicated by cathode band
- Mounting Position: Any

MARKING

2V

D

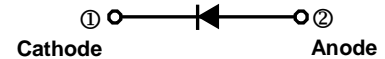
SOD-323



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.05 REF.		F	1.15	1.45
B	0.20 REF.		G	1.60	1.90
C	0.80	1.00	H	2.30	2.75
D	0.25	0.40	J	0.475 REF.	
E	0.08	0.20			

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-323	3K	7 inch



ORDER INFORMATION

Part Number	Type
SCS551V-30-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
Repetitive Peak Reverse Voltage	V_{RM}	30	V
Continuous Reverse Voltage	V_R	30	V
Forward Voltage	V_F	$I_F=100mA$	0.36
		$I_F=500mA$	0.47
Reverse Current @ $V_R=10V$	I_R	30	μA
Mean Rectifying Current	I_o	0.5	A
Forward Surge Current @8.3ms single half sine-wave	I_{FSM}	2	A
Operating Junction & Storage Temperature	T_J, T_{STG}	-40~125	°C

RATINGS AND CHARACTERISTIC CURVES

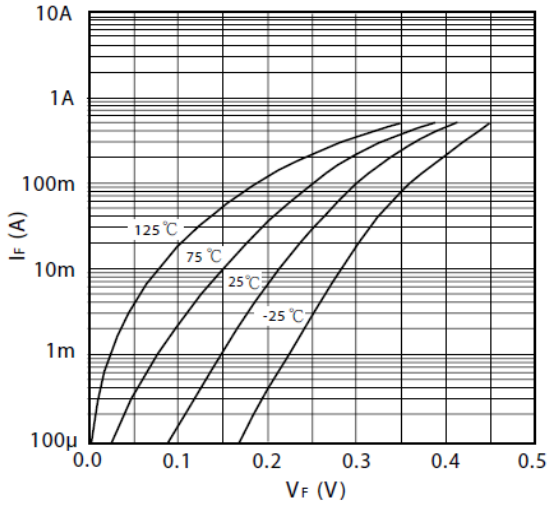


Fig.1 Forward characteristics

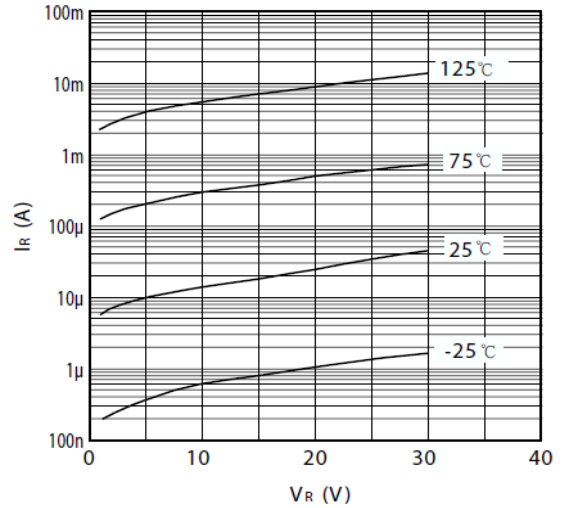


Fig.2 Reverse characteristics

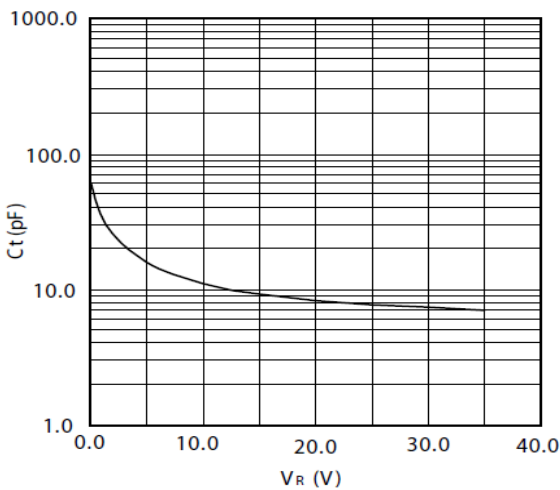


Fig.3 Capacitance between terminals characteristics

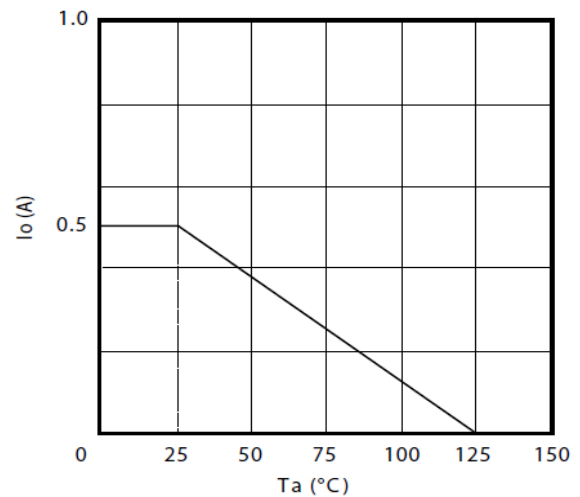
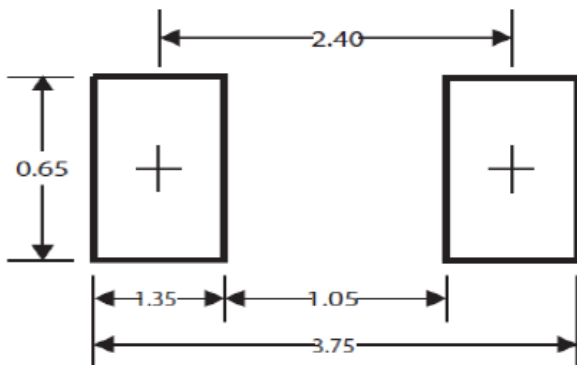


Fig.4 Derating curve



*Dimensions in millimeters

Fig.5 Mounting Pad Layout