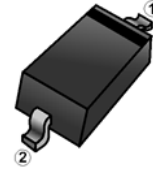


RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

## FEATURES

- Low Current Rectifier Schottky Diode
- Low Voltage, Low Inductance
- For Power Supply
- Moisture Sensitivity Level 1

SOD-323



## MECHANICAL DATA

- Case: Molded plastic, JEDEC SOD-323
- Terminal: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Cathode line denotes the cathode end

## MARKING

2V

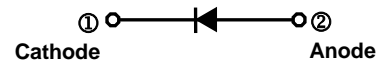
D

## 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



## ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Peak Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	30	V
DC Reverse Voltage @I <sub>R</sub> =100uA	V <sub>R</sub>	30	
Average Forward Current	I <sub>F</sub>	0.5	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	25	
Power Dissipation	P <sub>D</sub>	200	mW
Thermal Resistance Junction-Ambient	R <sub>θJA</sub>	500	°C/W
Operating Junction Temperature	T <sub>J</sub>	125	°C
Storage Temperature Range	T <sub>STG</sub>	-55~150	

## ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise specified)

Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Forward Voltage	V <sub>F</sub>	-	-	0.36	V	I <sub>F</sub> =0.1A
		-	-	0.47		I <sub>F</sub> =0.5A
Reverse Leakage Current	I <sub>R</sub>	-	-	100	μA	V <sub>R</sub> =20V

**CHARACTERISTIC CURVES**

Fig.1 Forward Current Derating Curve

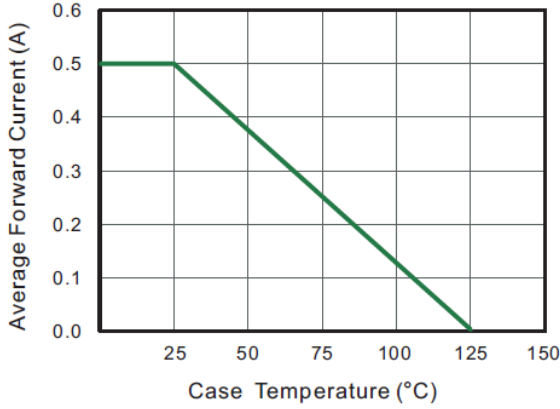


Fig.2 Typical Reverse Characteristics

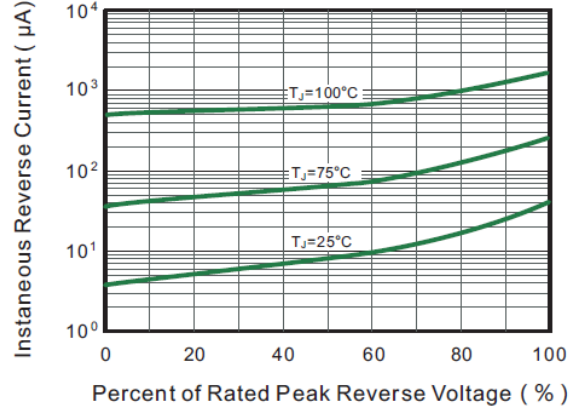


Fig.3 Typical Forward Characteristic

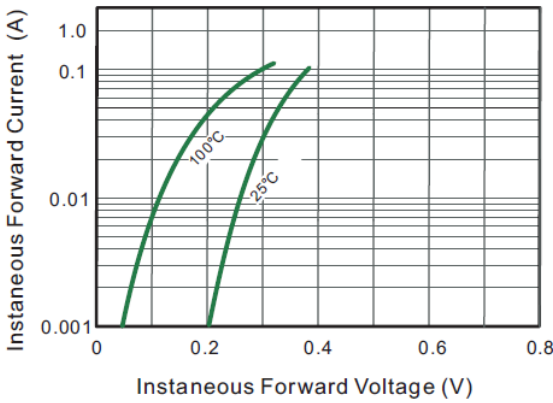


Fig.4 Typical Junction Capacitance

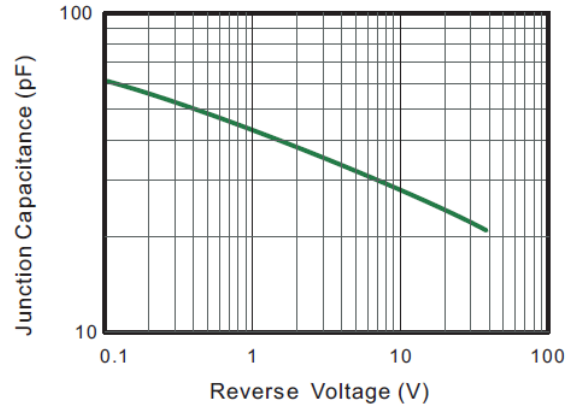
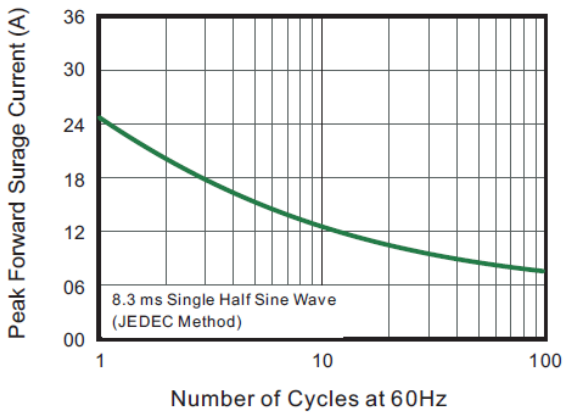
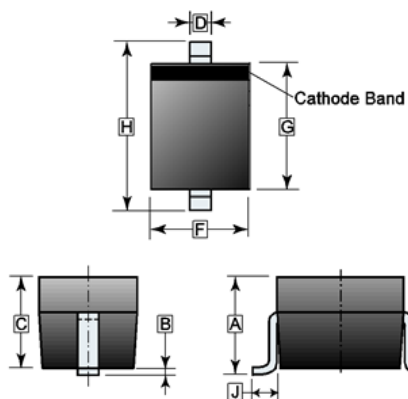


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



**PACKAGE OUTLINE DIMENSIONS**

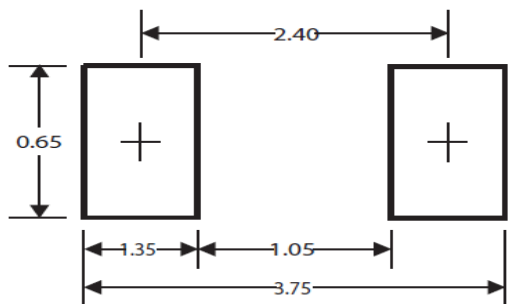
**SOD-323**



REF.	Millimeter	
	Min.	Max.
A	1.05 REF.	
B	0.07 REF.	
C	0.80	1.10
D	0.25	0.40
E	0.05	0.25
F	1.10	1.50
G	1.50	1.95
H	2.30	2.80
J	0.475 REF.	

**MOUNTING PAD LAYOUT**

**SOD-323**



\*Dimensions in millimeters