

## SCHOTTKY BARRIER RECTIFIERS

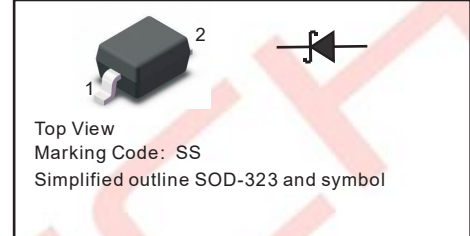
Reverse Voltage - 30 V    Forward Current - 1.0A

### FEATURES

- ◆ Metal silicon junction, majority carrier conduction
- ◆ Guarding for overvoltage protection
- ◆ Low power loss, high efficiency
- ◆ High current capability
- ◆ low forward voltage drop
- ◆ High surge capability

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



### MECHANICAL DATA

- ◆ Case: SOD-323
- ◆ Terminals: Solderable per MIL-STD-750, Method 2026
- ◆ Approx. Weight: 5.48mg / 0.00019oz

### Maximum Ratings at 25 °C

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	RB550V-30	Units
Peak Repetitive Reverse Voltage	$V_{RRM}$	30	V
DC reverse voltage	$V_R$	30	V
Maximum Average Forward Current at $T_a=25^\circ\text{C}$	$I_O$	1.0	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	25	A
Power Dissipation	$P_D$	200	mW
Maximum Instantaneous Forward Voltage	$V_F$	0.49 @ $I_F=0.7\text{A}$ 0.52 @ $I_F=1\text{A}$	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	30@ $V_R=10\text{V}$	$\mu\text{A}$
Operating and Storage Junction Temperature Range	$T_J, T_{stg}$	-55 ~ +125	$^\circ\text{C}$

## RATINGS AND CHARACTERISTIC CURVES

Fig.1 Power Derating Curve

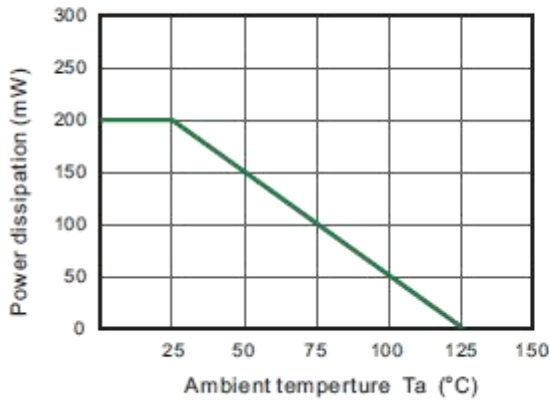


Fig.2 Typical Reverse Characteristics

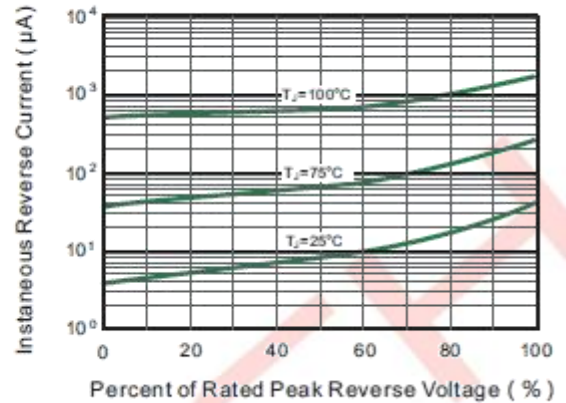


Fig.3 Typical Forward Characteristic

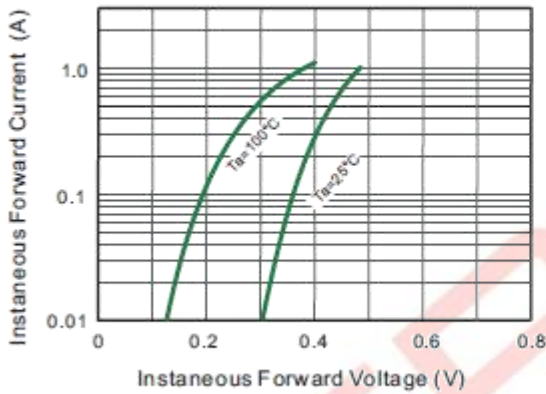


Fig.4 Typical Junction Capacitance

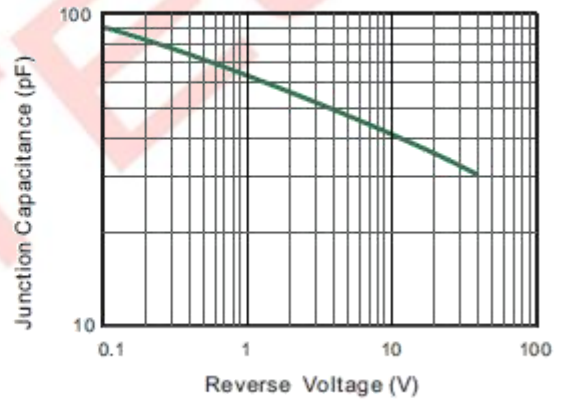
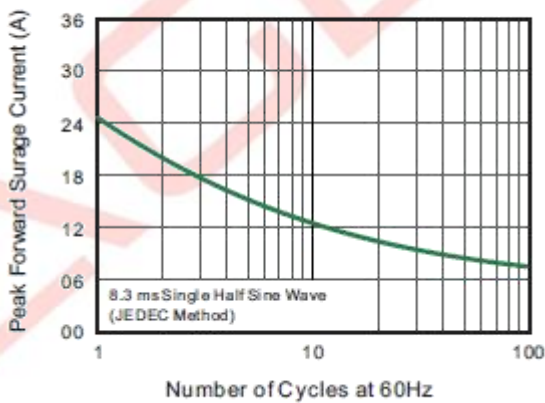
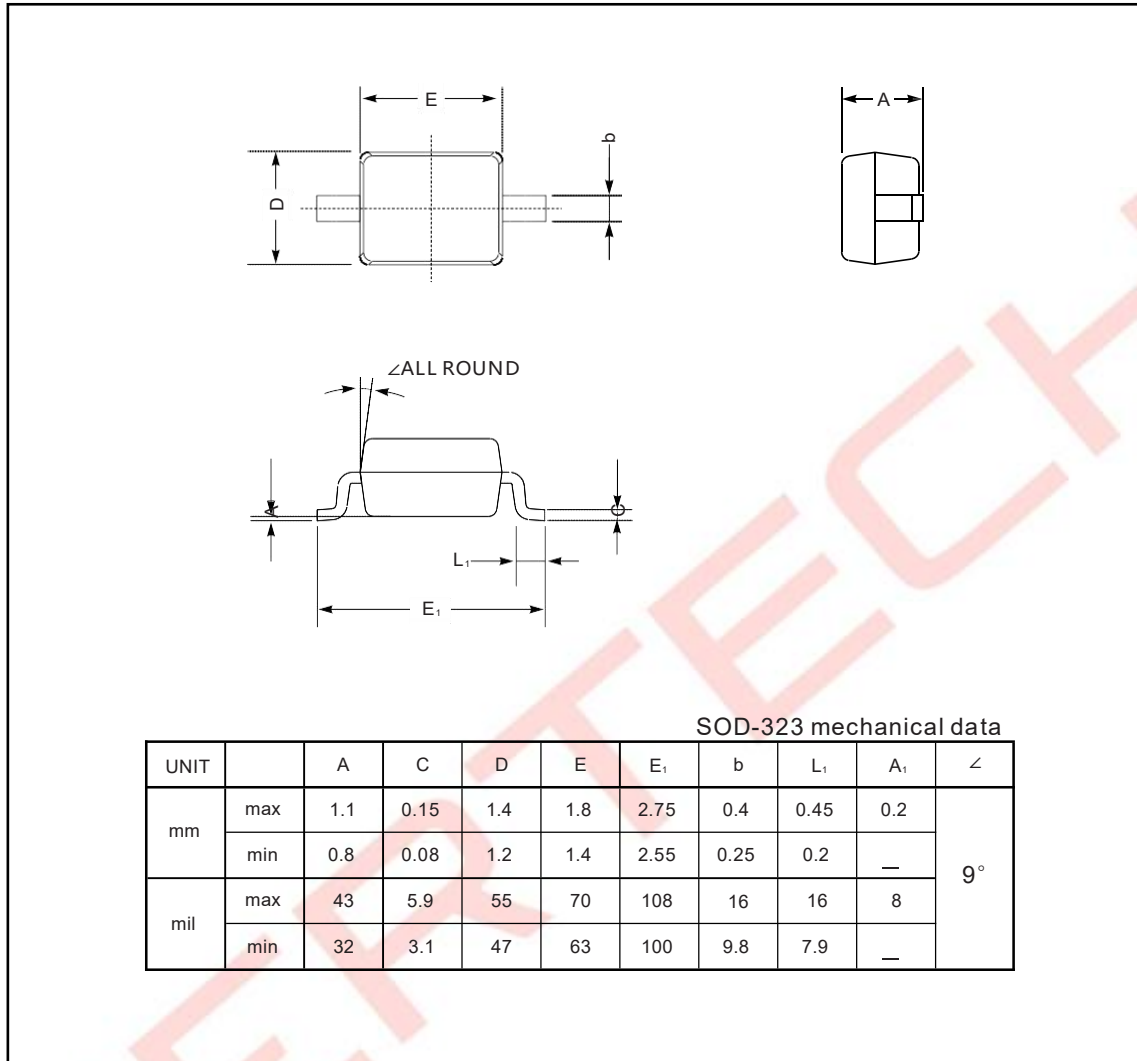


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

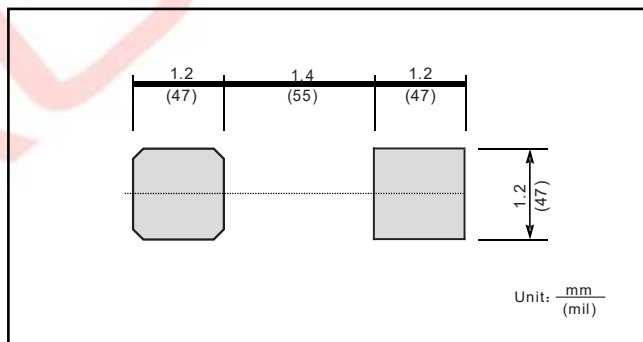


## PACKAGE OUTLINE

SOD-323



### The recommended mounting pad size



### Marking

Type number	Marking code
RB550V-30	SS