

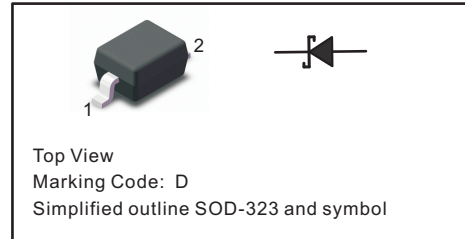
## SCHOTTKY BARRIER RECTIFIERS

### 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
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

### 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 and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	RB551V-30	Units
Peak Repetitive Reverse Voltage	$V_{RRM}$	30	V
DC Reverse Voltage	$V_R$	30	V
Maximum Average Forward Current at Ta=25°C	$I_o$	0.5	A
Power dissipation	$P_d$	200	mW
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	25	A
Maximum Instantaneous Forward Voltage	$V_F$	0.36 @ $I_F=100mA$ 0.47 @ $I_F=500mA$	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	100 @ $V_R=20V$	uA
Storage and Operating Junction Temperature Range	$T_j, T_{stg}$	-55 ~ +125	°C

Fig.1 Forward Current Derating Curve

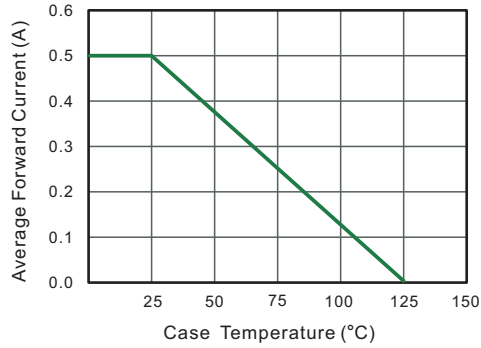


Fig.2 Typical Reverse Characteristics

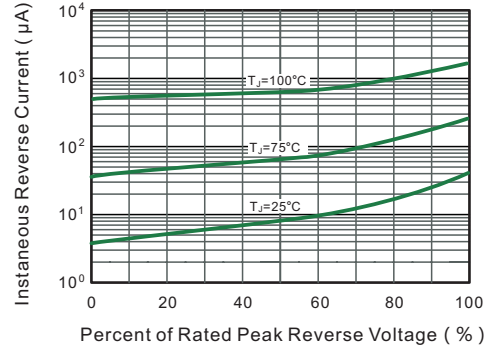


Fig.3 Typical Forward Characteristic

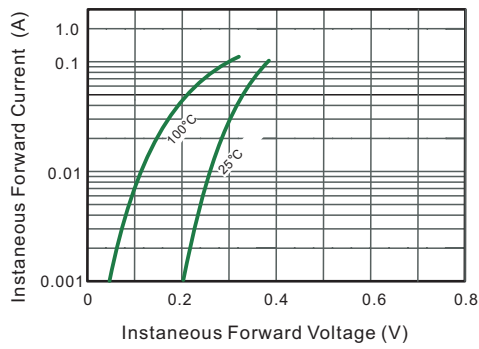


Fig.4 Typical Junction Capacitance

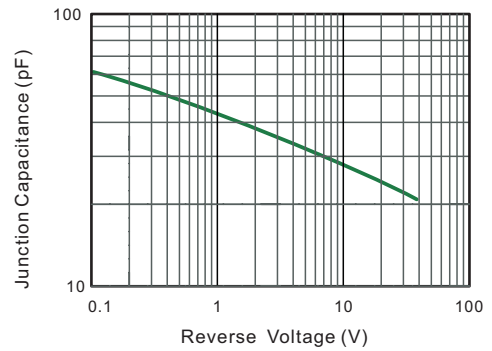
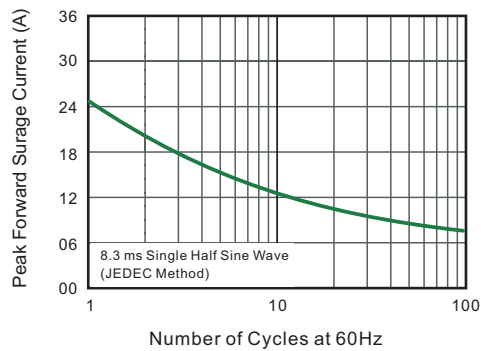


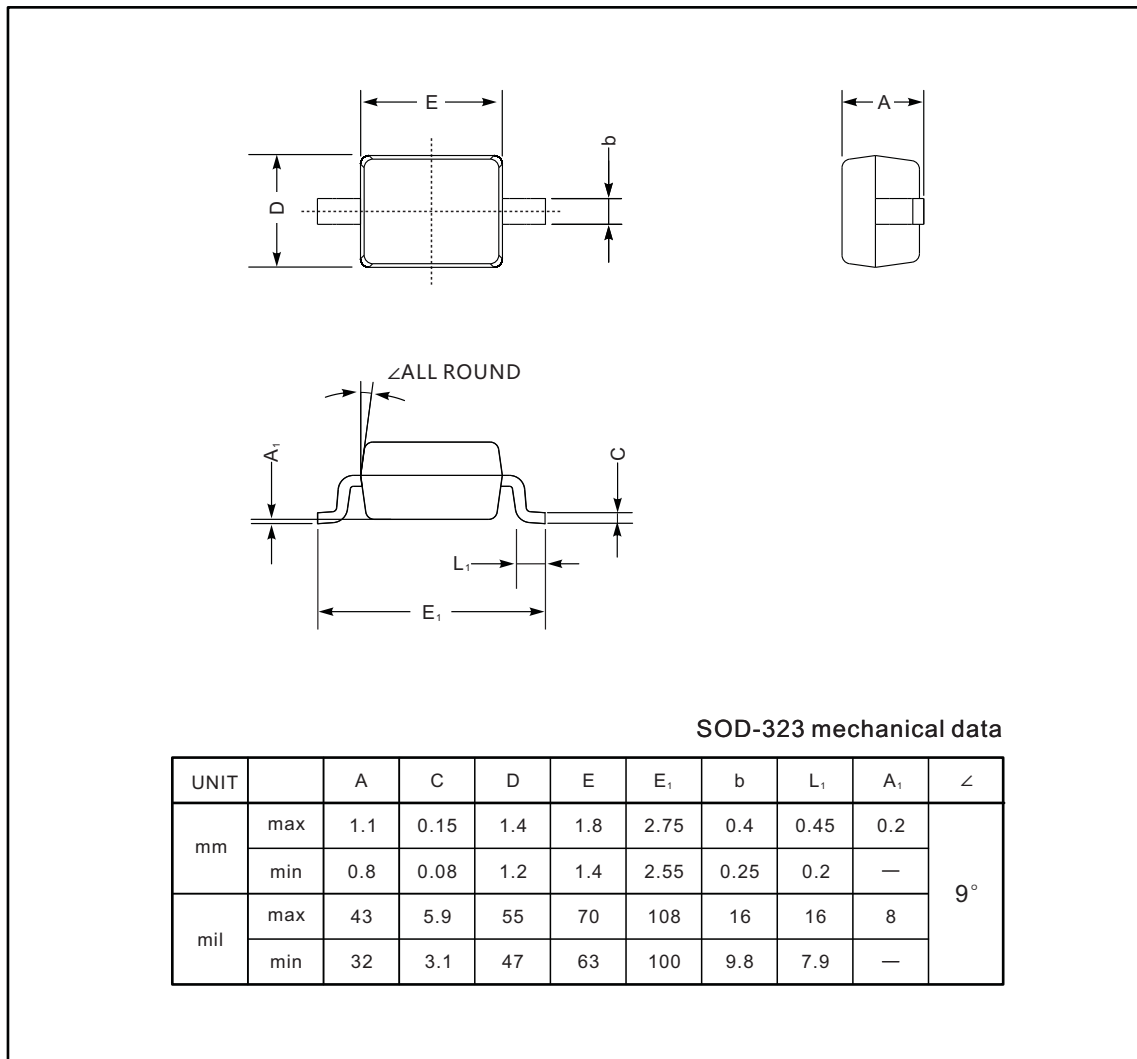
Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



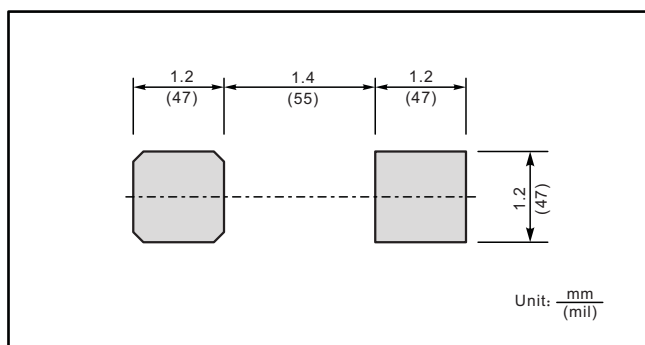
**PACKAGE OUTLINE**

Plastic surface mounted package; 2 leads

SOD-323



**The recommended mounting pad size**



**Marking**

