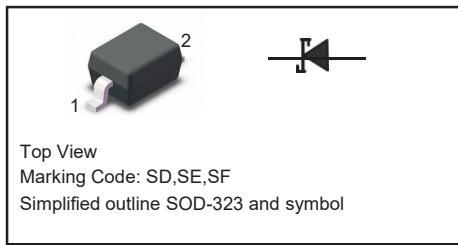


PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



SCHOTTKY BARRIER RECTIFIERS

FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- High Conductance
- Also Available in Lead Free Version

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	B0520WS	B0530WS	B0540WS	Units
Peak Repetitive Reverse Voltage	V_{RRM}	20	30	40	V
RMS reverse voltage reverse voltage (DC)	V_{RMS}	14	21	28	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	V
Maximum Average Forward Current at $T_a=25^\circ C$	I_o	0.5			A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	5.5			A
Maximum Instantaneous Forward Voltage	V_F	0.33 0.39 —	0.36 0.45 —	— 0.51 0.62	V
Reverse current	I_R	VR=10V VR=15V VR=20V VR=30V VR=40V	75 — 250 — —	— 75 100 500 —	uA
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	500			°C/W
Junction temperature	T_j	-55 ~ +125			V
Storage temperature	T_{stg}	-55 ~ +150			V

Fig.1 Forward Current Derating Curve

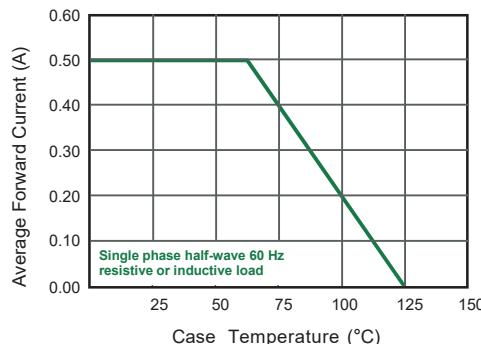


Fig.2 Typical Reverse Characteristics

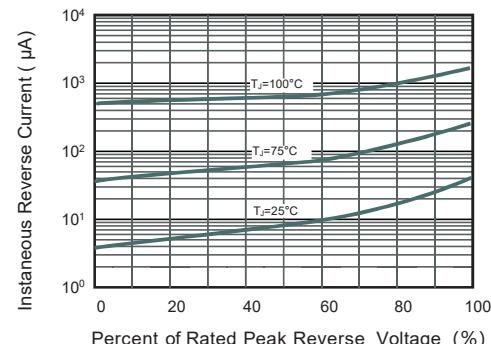


Fig.3 Forward Characteristics

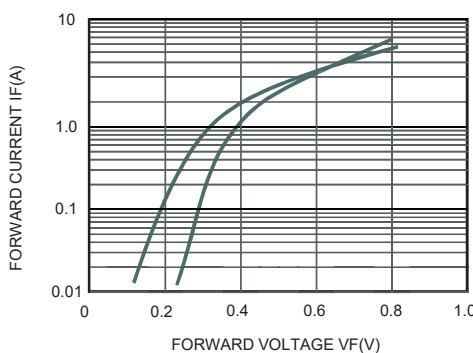
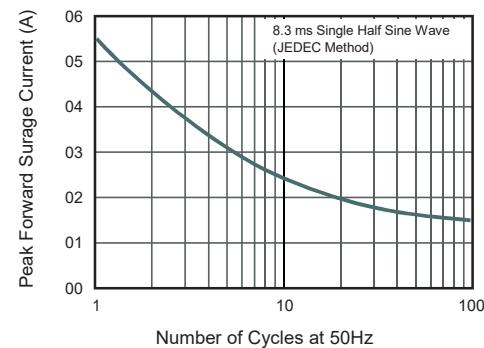


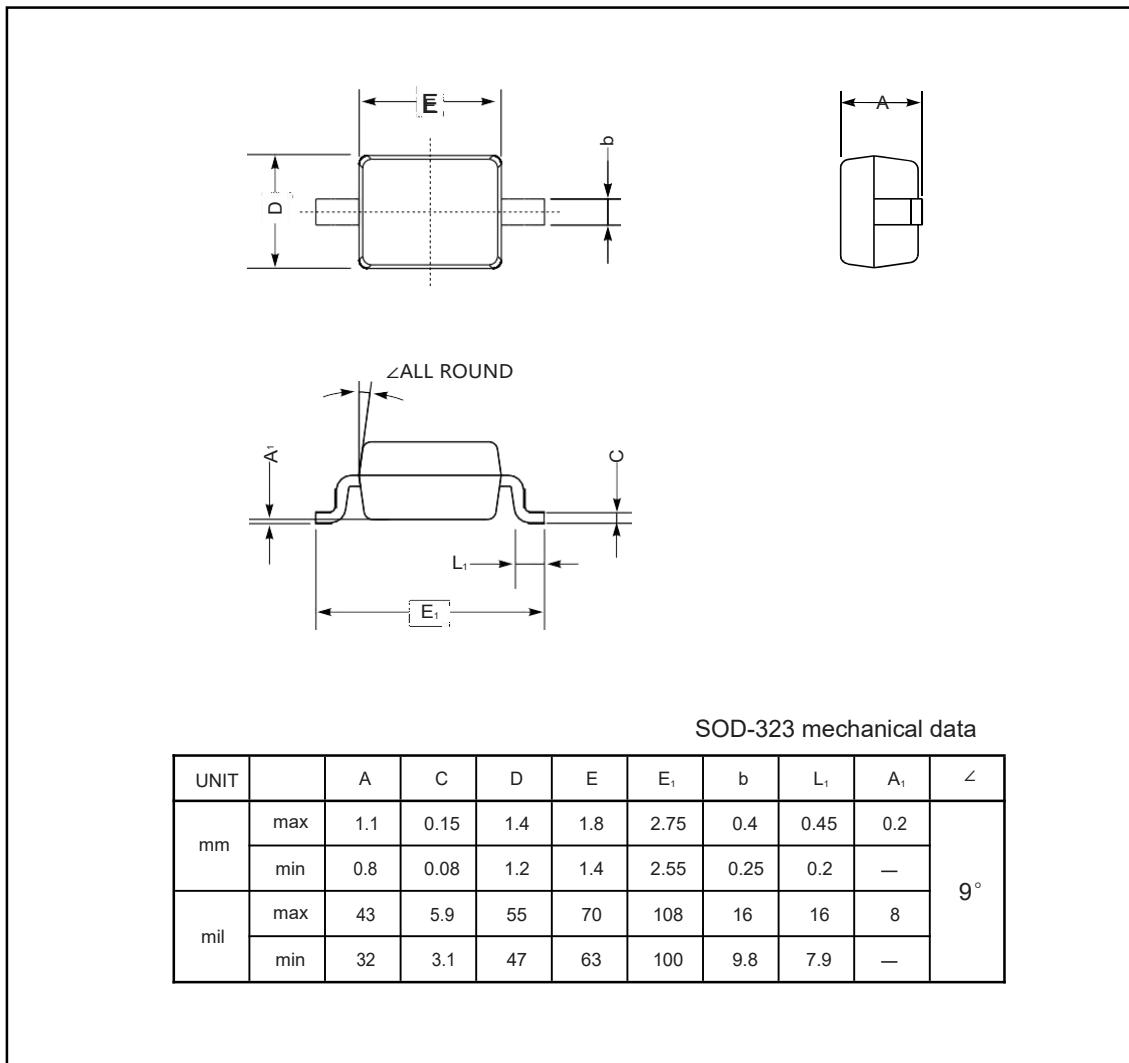
Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



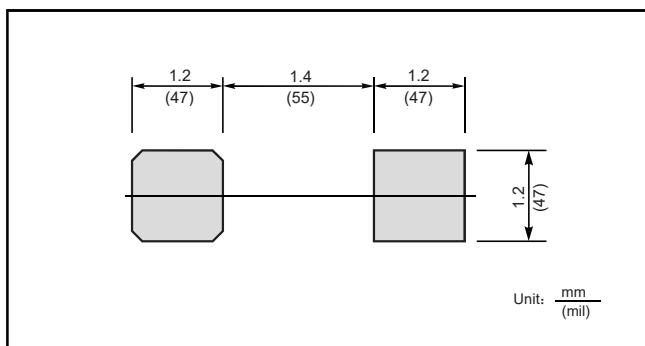
PACKAGE OUTLINE

Plastic surface mounted package; 2leads

SOD-323



The recommended mounting pad size



Marking

Type number	Marking code
B0520WS	SD
B0530WS	SE
B0540WS	SF