



SCHOTTKY BARRIER DIODES

FEATURES

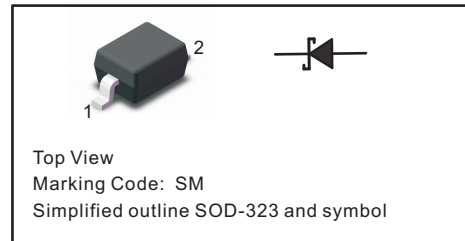
- Guard ring protection
- Low forward voltage drop
- For use in low voltage, high frequency inverters
- High surge current capability

MECHANICAL DATA

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

PINNING

| PIN | DESCRIPTION |
|-----|-------------|
| 1 | Cathode |
| 2 | Anode |



Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

| Parameter | Symbols | B16WS | Units |
|---|-----------------|---------------|-------|
| Maximum recurrent peak reverse voltage | V_{RRM} | 60 | V |
| Maximum RMS voltage | V_{RMS} | 42 | V |
| Maximum DC blocking voltage | V_{DC} | 60 | V |
| Continuous forward current | I_F | 1 | A |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | I_R | 0.1 @VR=60V | mA |
| Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method) | I_{FSM} | 10 | A |
| Maximum Instantaneous Forward Voltage | V_F | 0.7 @ IF=1.0A | V |
| Total capacitance VR=4V,f=1MHz | C_{tot} | 120 | pF |
| Total power dissipation | P_{tot} | 250 | mW |
| Thermal Resistance, Junction to Ambient Air | $R_{\theta JA}$ | 400 | °C/W |
| Junction Temperature | T_j | 125 | °C |
| Storage Temperature | T_{stg} | -55 ~ +150 | °C |



Fig.1 Power Derating Curve

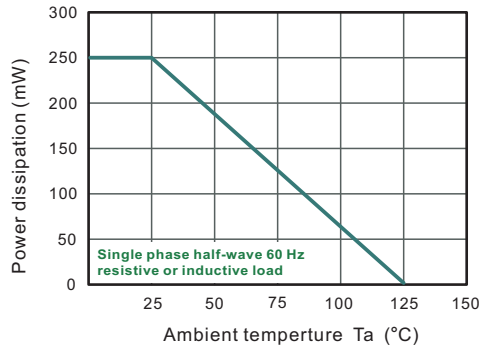


Fig.2 Typical Reverse Characteristics

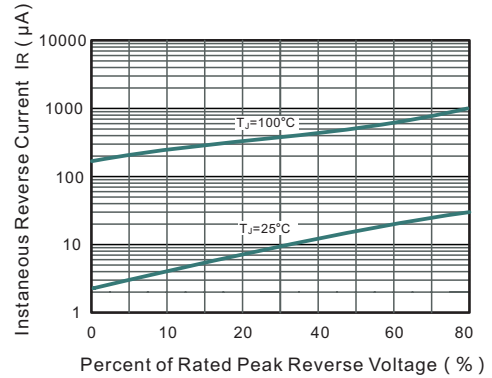


Fig.3 TYPICAL FORWARD VOLTAGE

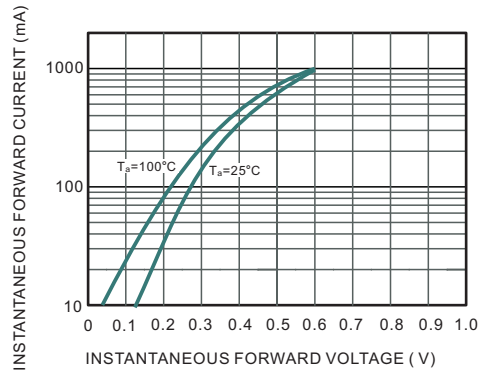
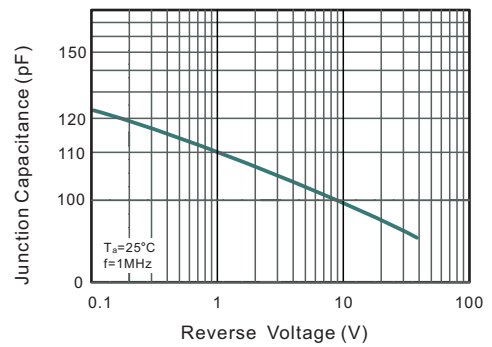


Fig.4 Typical Junction Capacitance

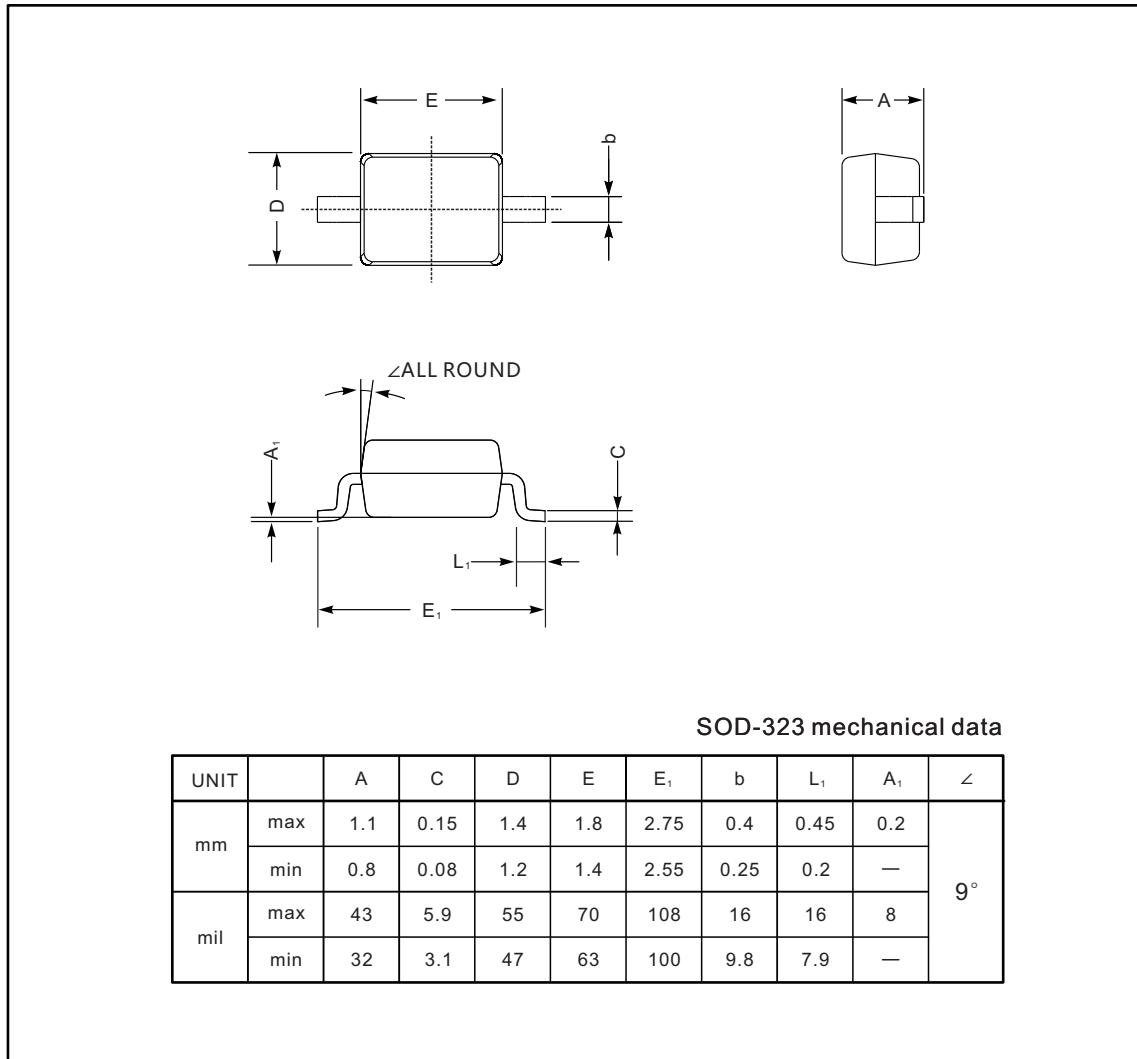




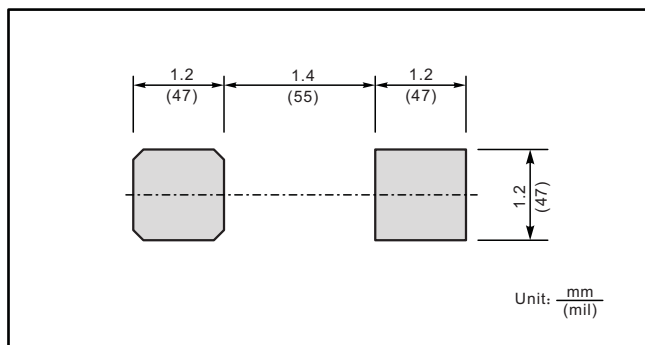
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



The recommended mounting pad size



Marking

| Type number | Marking code |
|-------------|--------------|
| B16WS | SM |