

SURFACT MOUNT SWITCHING DIODES

VOLTAGE 75-200 Volts

POWER 200 mWatts

PACKAGE SOD-323

FEATURES

- Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- Electrically Identical to Standard JEDEC
- High Conductance

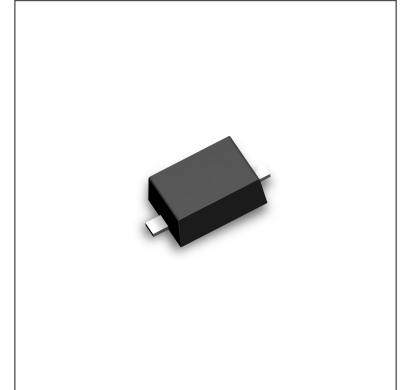
MECHANICAL DATA

Case: SOD-323, Plastic

Terminals: Solderable per MIL-STD-202, Method 208

Approx. Weight: 0.008 gram

Marking: A6, A8, A80, A82



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

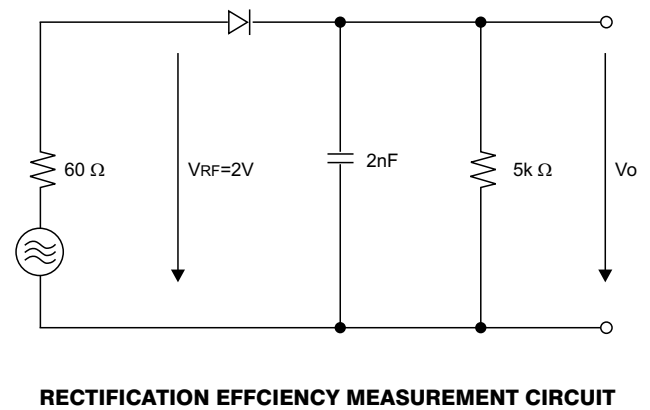
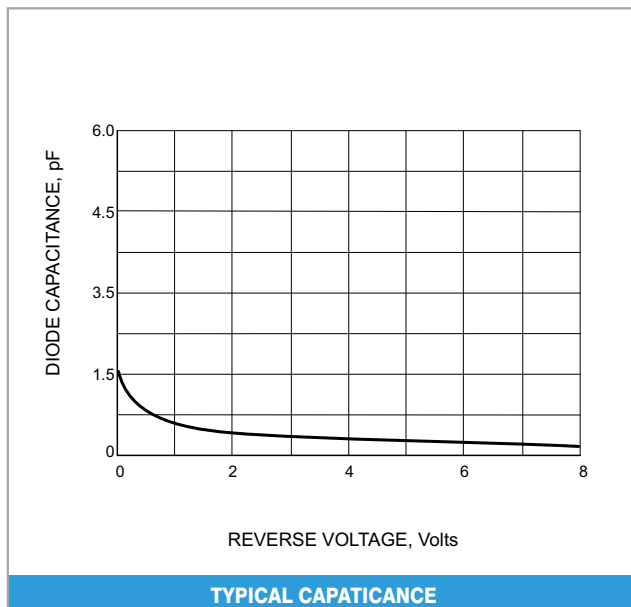
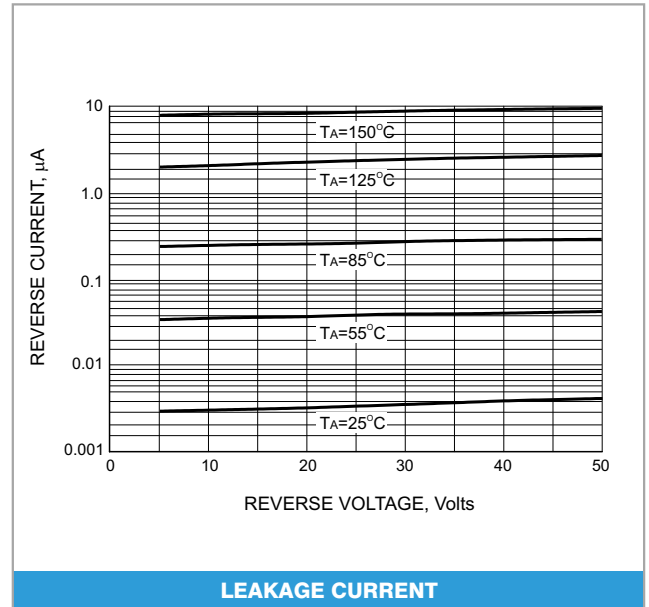
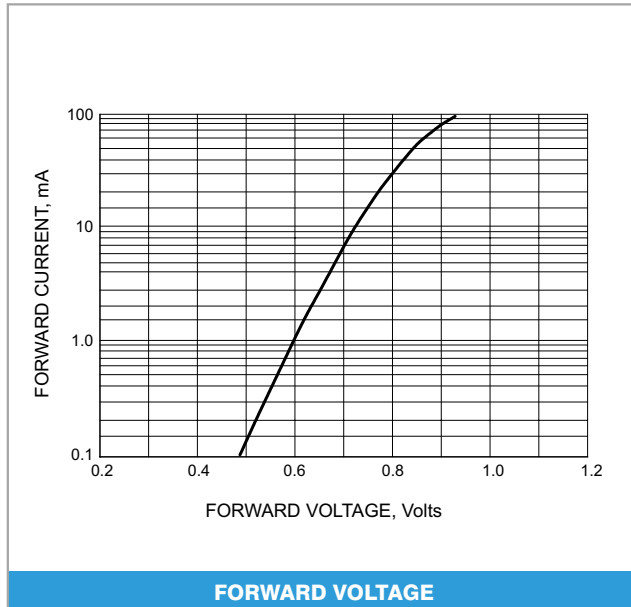
For capacitive load, derate current by 20%.

| PARAMETER | SYMBOL | BAV16WS | BAV19WS | BAV20WS | BAV21WS | UNITS |
|---|------------------|----------------------------------|---------|---------|---------|--------|
| Reverse Voltage | V _R | 75 | 100 | 150 | 200 | V |
| Peak Reverse Voltage | V _{RM} | 100 | 120 | 200 | 250 | V |
| Rectified Current (Average), Half Wave Rectification with Resistive Load and f >=50 Hz | I _o | 250 | 200 | 200 | 200 | mA |
| Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method) | I _{FSM} | 2.0 | 2.5 | 2.5 | 2.5 | A |
| Power Dissipation Derate Above 25°C | P _{TOT} | 200 | 200 | 200 | 200 | mW |
| Maximum Forward Voltage @ I _F =100 mA | V _F | 0.855 @ I _F =10 mA | 1.0 | 1.0 | 1.0 | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage T _J = 25°C | I _R | 1.0 | 0.1 | 0.1 | 0.1 | μA |
| Typical Junction Capacitance(Notes1) | C _J | 2.0 | 1.5 | 1.5 | 1.5 | pF |
| Maximum Reverse Recovery (Notes2) | T _{RR} | 6.0 | 50 | 50 | 50 | ns |
| Maximum Thermal Resistance | R _{θJA} | 357 | | | | °C / W |
| Storage Temperature Range | T _J | -55 TO +125 | | | | °C |

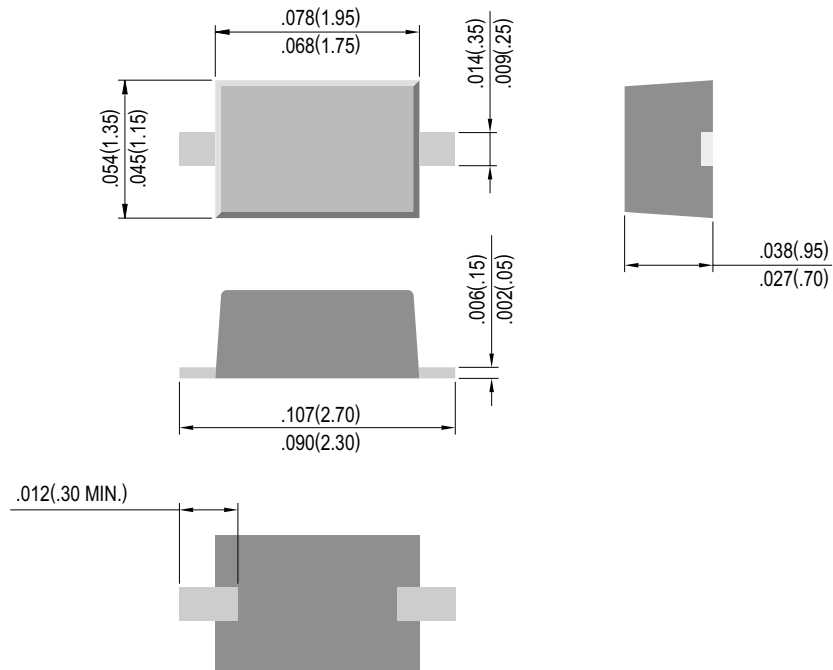
NOTE:

1. C_J at V_R=0, f=1MHZ

2. From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100Ω



SOD-323



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