



1N5347BS~1N5369BS

SILICON ZENER DIODES

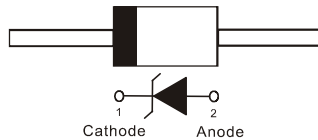
VOLTAGE 10~51 Volt **POWER** 5 Watt

FEATURES

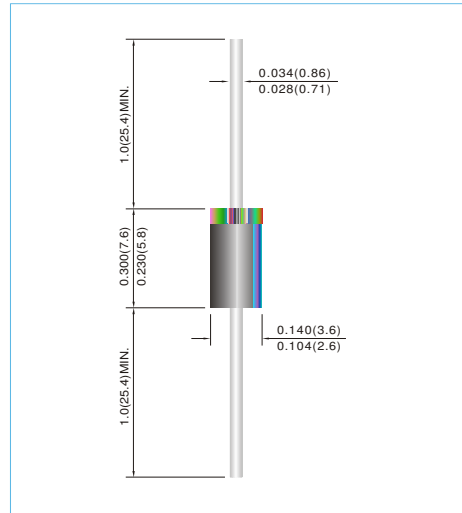
- Low inductance
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

- Case: JEDEC DO-15, Molded plastic over passivated junction
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.014 ounce, 0.0397 gram
- Marking: Part number



DO-15 Unit : inch(mm)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

| Parameter | Symbol | Value | Unit |
|--|----------------|-------------|------|
| Power Dissipation (NOTE 1) | P_D | 5 | W |
| Operating Junction and Storage Temperature Range | T_J, T_{STG} | -55 to +150 | °C |

NOTE :

1. The testing condition of the thermal resistance (junction to ambient and junction to lead) is based on 0 mm lead length between two 10cm x 10cm copper pad

| Part Number | Nominal Zener Voltage | | | Maximum Zener Impedance | | | | Maximum Leakage Current | |
|-------------|-----------------------|--------|--------|-------------------------|-----|-------------------|----|-------------------------|-------|
| | $V_Z @ I_{ZT}$ | | | $Z_{ZT} @ I_{ZT}$ | | $Z_{ZK} @ I_{ZK}$ | | I_R | V_R |
| | Nom. V | Min. V | Max. V | Ω | mA | Ω | mA | μA | V |
| 1N5347BS | 10 | 9.5 | 10.5 | 2 | 125 | 125 | 1 | 5 | 7.6 |
| 1N5353BS | 16 | 15.2 | 16.8 | 2.5 | 75 | 75 | 1 | 1 | 12.2 |
| 1N5354BS | 17 | 16.15 | 17.85 | 2.5 | 70 | 75 | 1 | 0.5 | 12.9 |
| 1N5369BS | 51 | 48.45 | 53.55 | 27 | 25 | 230 | 1 | 0.5 | 38.8 |



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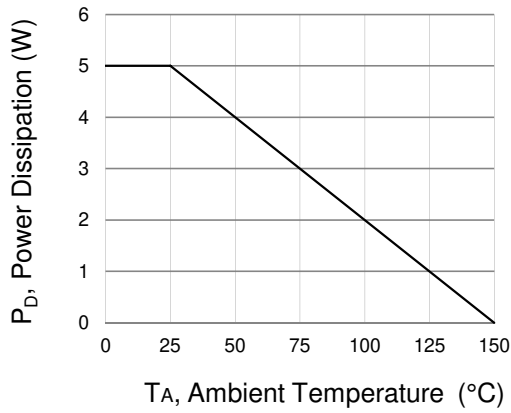


Fig.1 Steady-State Power Derating Curve

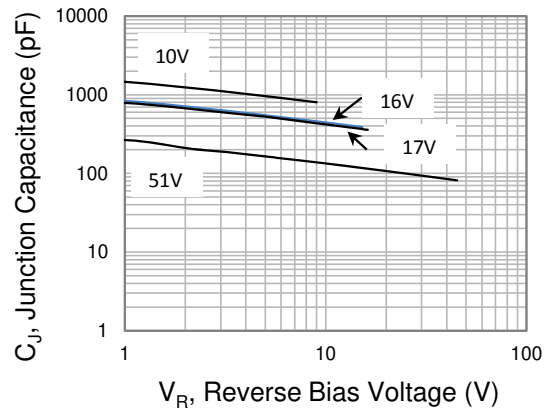


Fig.2 Typical Junction Capacitance

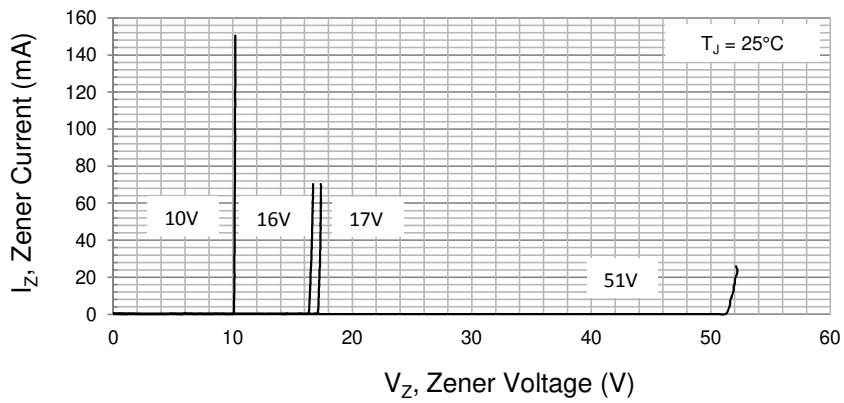


Fig.3 Typical Zener Characteristics

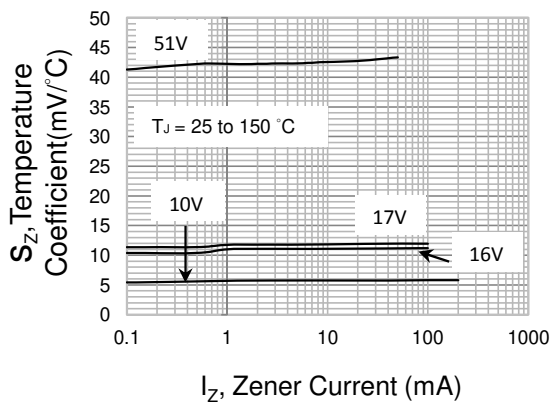


Fig.4 Temperature Coefficient As A Function Of Working Current; Typical Values



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Part No_packing code_Version

1N5347BS_AY_00001
 1N5347BS_AY_10001
 1N5347BS_B0_00001
 1N5347BS_B0_10001
 1N5347BS_R2_00001
 1N5347BS_R2_10001

For example :

RB500V-40_R2_00001



| Packing Code XX | | | | Version Code XXXXX | | |
|--------------------------------------|----------------------|----------------------------------|----------------------|---------------------------|----------------------|---------------------------------------|
| Packing type | 1 st Code | Packing size code | 2 nd Code | HF or RoHS | 1 st Code | 2 nd ~5 th Code |
| Tape and Ammunition Box (T/B) | A | N/A | 0 | HF | 0 | serial number |
| Tape and Reel (T/R) | R | 7" | 1 | RoHS | 1 | serial number |
| Bulk Packing (B/P) | B | 13" | 2 | | | |
| Tube Packing (T/P) | T | 26mm | X | | | |
| Tape and Reel (Right Oriented) (TRR) | S | 52mm | Y | | | |
| Tape and Reel (Left Oriented) (TRL) | L | PANASERT T/B CATHODE UP (PBCU) | U | | | |
| FORMING | F | PANASERT T/B CATHODE DOWN (PBCD) | D | | | |



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