



BZX84A4V7

SURFACE MOUNT SILICON ZENER DIODES

| | | | |
|----------------|-----------------|--------------|------------------|
| VOLTAGE | 4.7 Volt | POWER | 410 mWatt |
|----------------|-----------------|--------------|------------------|

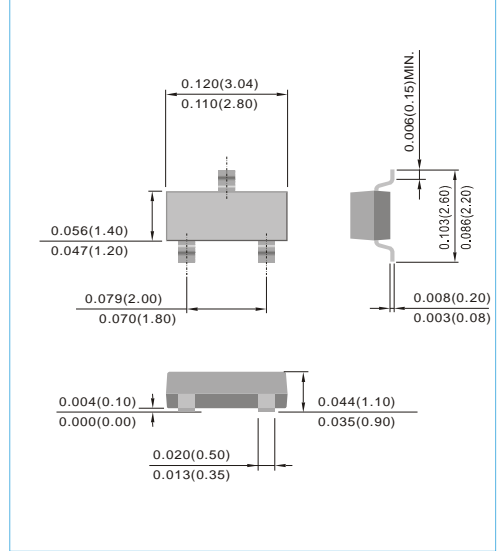
FEATURES

- Planar Die construction
- 410mW Power Dissipation
- Zener Voltages from 4.7V
- Ideally Suited for Automated Assembly Processes
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

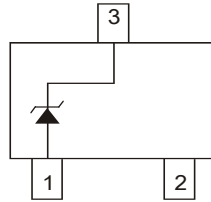
MECHANICAL DATA

- Case: SOT-23, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0003 ounces, 0.0084 grams

SOT-23 Unit : inch(mm)



SINGLE



MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

| PARAMETER | SYMBOL | VALUE | UNITS |
|--|------------------|-------------|-------|
| Maximum Power Dissipation | P _D | 410 | mW |
| Thermal resistance Junction to Ambient (Note 1) | R _{θJA} | 305 | °C/W |
| Operating Junction Temperature and Storage Temperature Range | T _J | -55 to +150 | °C |

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

| Part Number | Nominal Zener Voltage | | | Max. Zener Impedance | | | | Max Reverse Leakage Current | | Marking Code |
|-------------------------|----------------------------------|--------|--------|-----------------------------------|-----|-----------------------------------|------|---------------------------------|-----|--------------|
| | 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 | |
| 410 mWatts Zener Diodes | | | | | | | | | | |
| BZX84A4V7 | 4.7 | 4.65 | 4.75 | 80 | 5.0 | 500 | 1.00 | 3.0 | 2.0 | W8 |

NOTES :

1. Mounted on 42cm² FR-4 PCB board.



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RATING AND CHARACTERISTIC CURVES

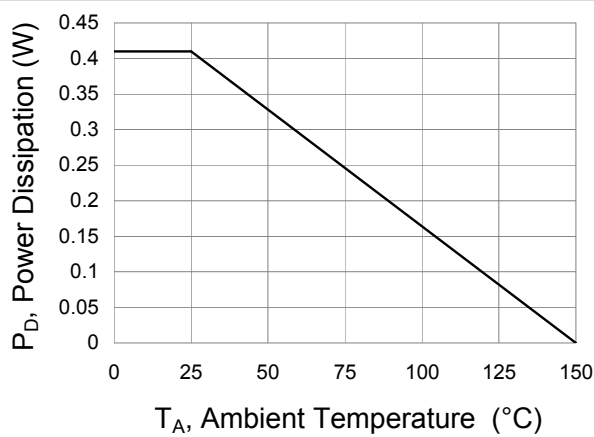


Fig.1 Power Derating Curve

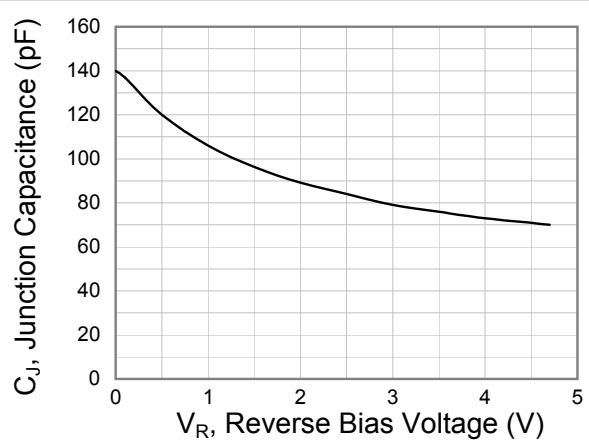


Fig.2 Typical Junction Capacitance

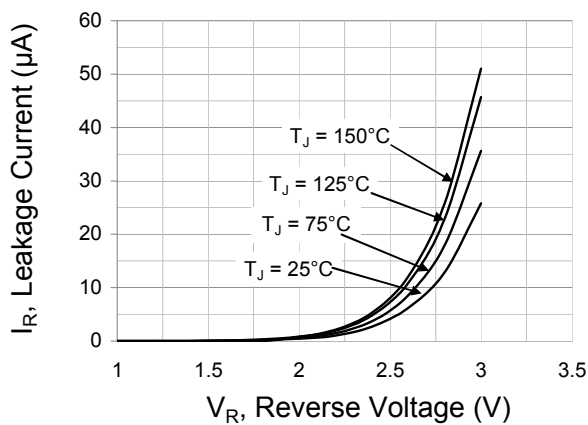


Fig.3 Typical Leakage Characteristics

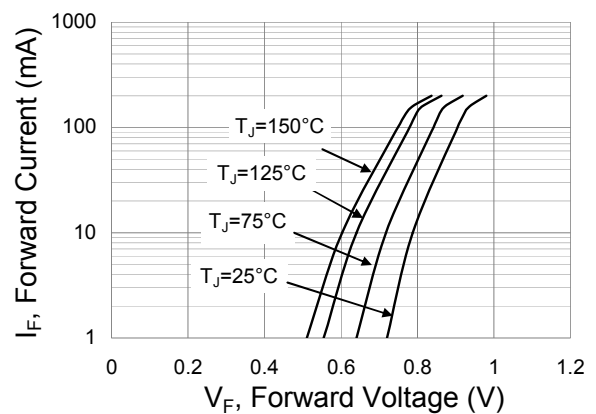


Fig.4 Typical Forward Characteristics

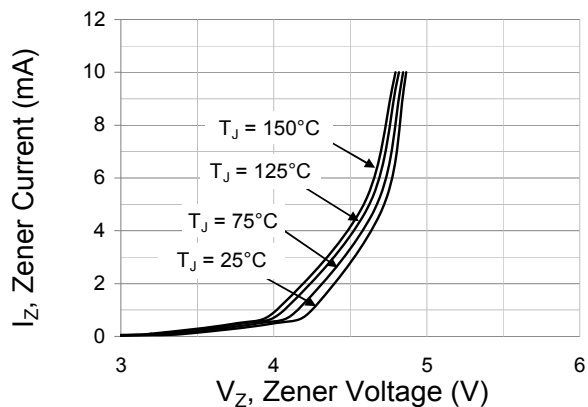


Fig.5 Typical Zener Characteristics

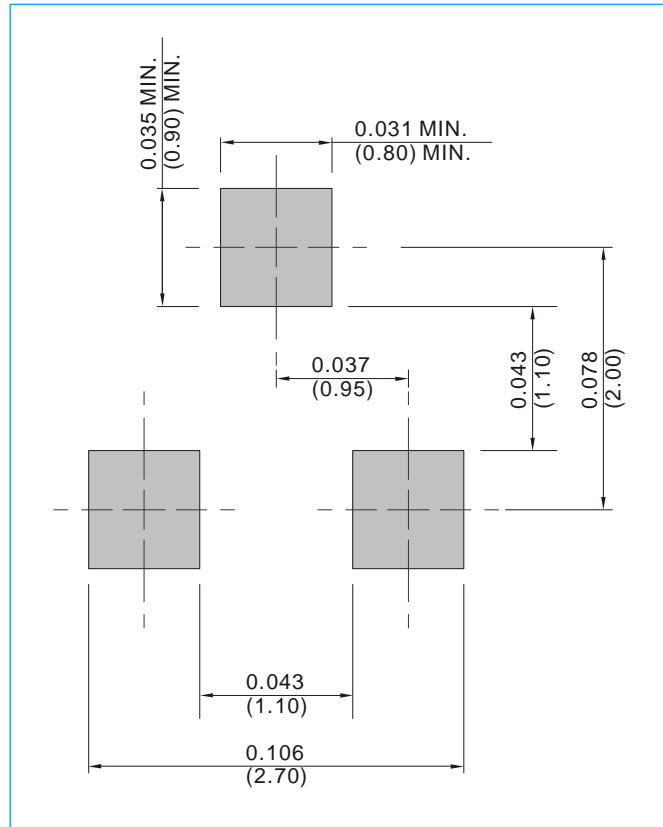


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MOUNTING PAD LAYOUT

SOT-23

Unit : inch(mm)



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 3K per 7" plastic Reel



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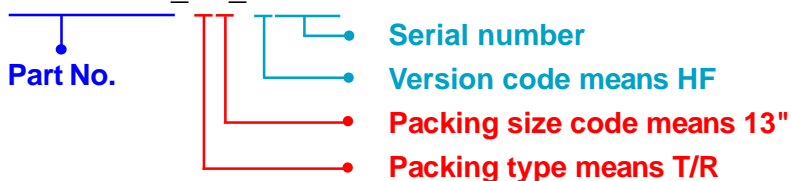
Part No_packing code_Version

BZX84A4V7_R1_00001

BZX84A4V7_R2_00001

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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