



BZX584B5V1 SERIES

SURFACE MOUNT SILICON ZENER DIODES

VOLTAGE 5.1~8.2 Volt **POWER** 200 mWatt

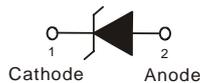
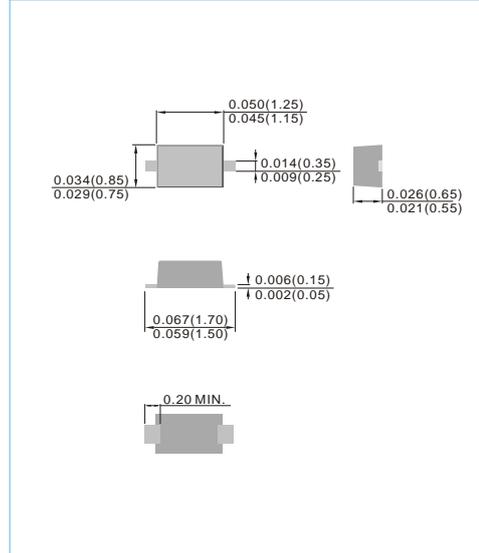
SOD-523 Unit : inch(mm)

FEATURES

- Planar Die construction
- 200mW Power Dissipation
- 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: SOD-523, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx weight: 0.00005 ounces, 0.001 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

| Parameter | Symbol | Value | Units |
|--|----------------|-------------|-------|
| Maximum Power Dissipation (Notes A) at 25°C | P _D | 200 | mW |
| Operating Junction and Storage Temperature Range | T _J | -55 to +150 | °C |

ELECTRICAL CHARACTERISTICS

| 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 | |
| BZX584B5V1 | 5.1 | 5 | 5.2 | 60 | 5 | 480 | 1 | 2 | 2 | W9 |
| BZX584B5V6 | 5.6 | 5.49 | 5.71 | 40 | 5 | 400 | 1 | 1 | 2 | WA |
| BZX584B8V2 | 8.2 | 8.04 | 8.36 | 15 | 5 | 80 | 1 | 0.7 | 5 | WE |

NOTES :

A. Mounted on an FR4 PCB, single-sided copper, mini pad.



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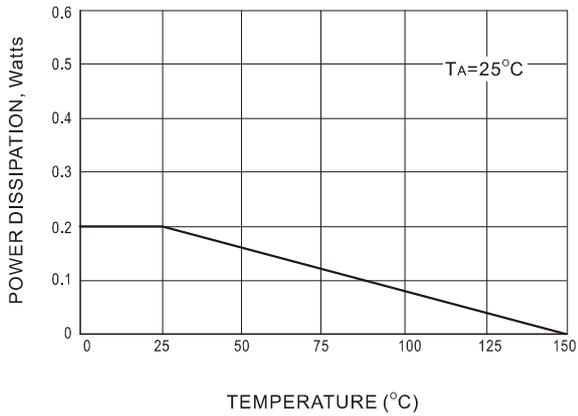


Fig.1 STEADY STATE POWER DERATING

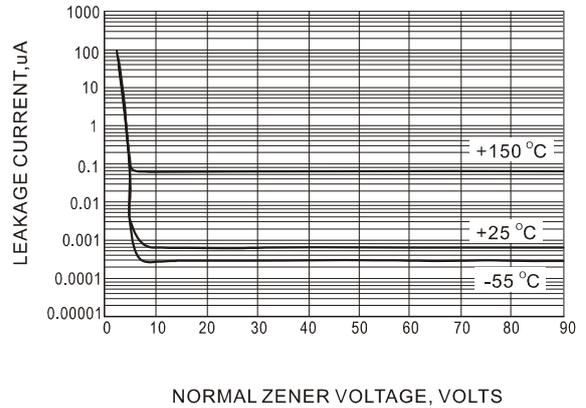


Fig.2 TYPICAL LEAKAGE CURRENT

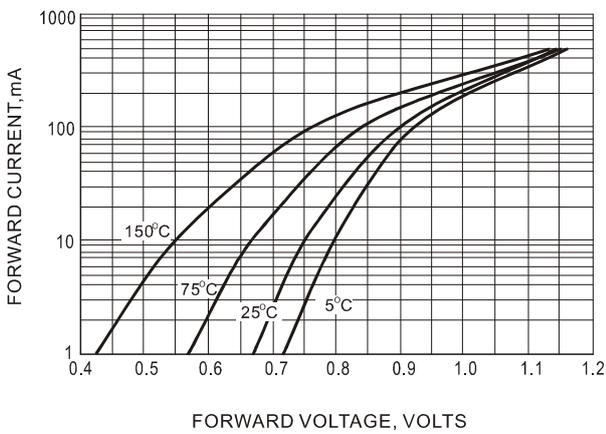


Fig.3 TYPICAL FORWARD VOLTAGE

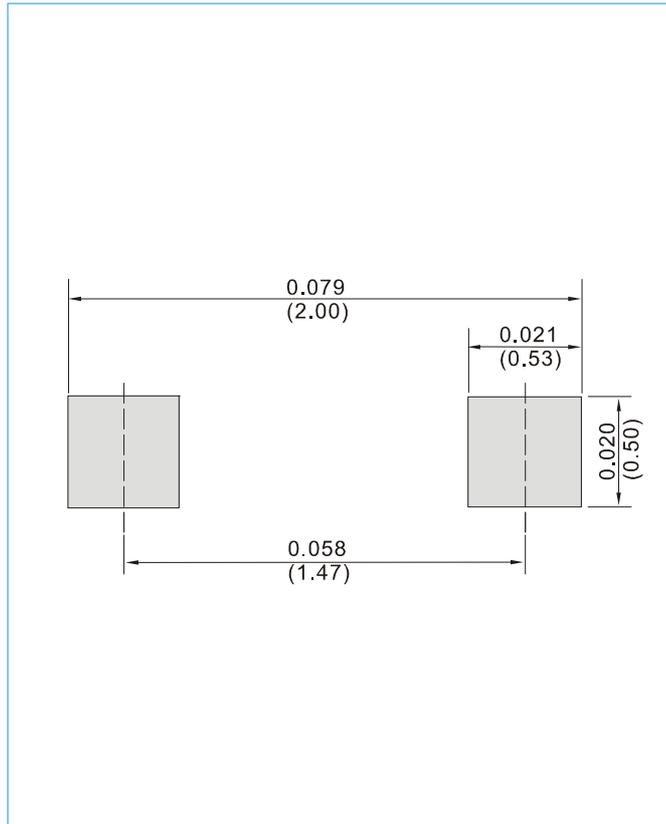


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MOUNTING PAD LAYOUT

SOD-523

Unit : inch(mm)



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 5K per 7" plastic Reel



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Part No_packing code_Version

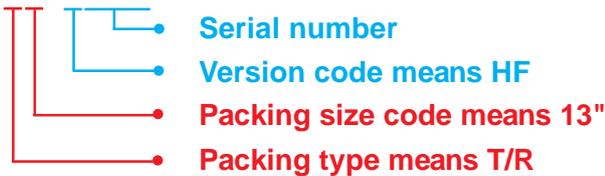
BZX584B5V1_R1_00001

BZX584B5V1_R2_00001

For example :

RB500V-40_R2_00001

Part No.



| 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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