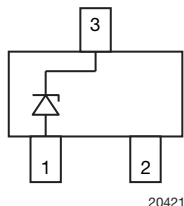


Small Signal Zener Diodes



FEATURES

- These diodes are also available in other case styles and other configurations including: the SOD-123 case with type designation BZT52 series, the zener diode common anode configuration in the SOT-23 case with type designation AZ23 series and the zener diode common cathode configuration in the SOT-23 case with type designation DZ23 series
- The Zener voltages are graded according to the international E 24 standard. Standard zener voltage tolerance is $\pm 5\%$. Replace "C" with "B" for 2 % tolerance.
- Silicon planar power Zener diodes
- AEC-Q101 qualified
- Compliant to RoHS Directive 2002/95/EC and in accordance to WEEE 2002/96/EC


RoHS
COMPLIANT

PRIMARY CHARACTERISTICS

| PARAMETER | VALUE | UNIT |
|-----------------------|---------------|------|
| V_Z range nom. | 2.4 to 75 | V |
| Test current I_{ZT} | 2; 5 | mA |
| V_Z specification | Pulse current | |
| Int. construction | Single | |

ORDERING INFORMATION

| DEVICE NAME | ORDERING CODE | TAPED UNITS PER REEL | MINIMUM ORDER QUANTITY |
|----------------|---------------------|--------------------------------|------------------------|
| BZX84-V-series | BZX84-V-series-GS18 | 10 000 (8 mm tape on 13" reel) | 10 000 |
| BZX84-V-series | BZX84-V-series-GS08 | 3000 (8 mm tape on 7" reel) | 15 000 |

PACKAGE

| PACKAGE NAME | WEIGHT | MOLDING COMPOUND FLAMMABILITY RATING | MOISTURE SENSITIVITY LEVEL | SOLDERING CONDITIONS |
|--------------|--------|---|--------------------------------------|--------------------------|
| SOT-23 | 8.8 mg | UL 94 V-0 | MSL level 1 (according J-STD-020) | 260 °C/10 s at terminals |

ABSOLUTE MAXIMUM RATINGS

| PARAMETER | TEST CONDITION | SYMBOL | VALUE | UNIT |
|--|--|------------|---------------|------|
| Power dissipation | $T_{amb} = 25\text{ °C}$, device on fiberglass substrate, acc. layout on page 7 | P_{tot} | 300 | mW |
| Thermal resistance junction to ambient air | $T_{amb} = 25\text{ °C}$, device on fiberglass substrate, acc. layout on page 7 | R_{thJA} | 420 | K/W |
| Junction temperature | | T_j | 150 | °C |
| Storage temperature range | | T_{stg} | - 65 to + 150 | °C |

**ELECTRICAL CHARACTERISTICS** ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)

| PART NUMBER | MARKING CODE | ZENER VOLTAGE RANGE | | | TEST CURRENT | | REVERSE LEAKAGE CURRENT | | DYNAMIC RESISTANCE $f = 1\text{ kHz}$ | | TEMPERATURE COEFFICIENT | |
|-------------|--------------|---------------------|------|------|--------------|-----------|-------------------------|------|--|-----------------------|----------------------------|------|
| | | V_Z at I_{ZT1} | | | I_{ZT1} | I_{ZT2} | I_R at V_R | | Z_Z at I_{ZT1} | Z_{ZK} at I_{ZT2} | α_{VZ} at I_{ZT1} | |
| | | V | | | mA | | μA | V | Ω | | $10^{-4}/^{\circ}\text{C}$ | |
| | | MIN. | NOM. | MAX. | | | | | MAX. | MAX. | MIN. | MAX. |
| BZX84C2V4-V | Z11 | 2.2 | 2.4 | 2.6 | 5 | 1 | 50 | 1 | 100 | 275 | - 9 | - 4 |
| BZX84C2V7-V | Z12 | 2.5 | 2.7 | 2.9 | 5 | 1 | 20 | 1 | 100 | 600 | - 9 | - 4 |
| BZX84C3V0-V | Z13 | 2.8 | 3.0 | 3.2 | 5 | 1 | 10 | 1 | 95 | 600 | - 9 | - 3 |
| BZX84C3V3-V | Z14 | 3.1 | 3.3 | 3.5 | 5 | 1 | 5 | 1 | 95 | 600 | - 8 | - 3 |
| BZX84C3V6-V | Z15 | 3.4 | 3.6 | 3.8 | 5 | 1 | 5 | 1 | 90 | 600 | - 8 | - 3 |
| BZX84C3V9-V | Z16 | 3.7 | 3.9 | 4.1 | 5 | 1 | 3 | 1 | 90 | 600 | - 7 | - 3 |
| BZX84C4V3-V | Z17 | 4.0 | 4.3 | 4.6 | 5 | 1 | 3 | 1 | 90 | 600 | - 6 | - 1 |
| BZX84C4V7-V | Z1 | 4.4 | 4.7 | 5.0 | 5 | 1 | 3 | 2 | 80 | 500 | - 5 | 2 |
| BZX84C5V1-V | Z2 | 4.8 | 5.1 | 5.4 | 5 | 1 | 2 | 2 | 60 | 480 | - 3 | 4 |
| BZX84C5V6-V | Z3 | 5.2 | 5.6 | 6.0 | 5 | 1 | 1 | 2 | 40 | 400 | - 2 | 6 |
| BZX84C6V2-V | Z4 | 5.8 | 6.2 | 6.6 | 5 | 1 | 3 | 4 | 10 | 150 | - 1 | 7 |
| BZX84C6V8-V | Z5 | 6.4 | 6.8 | 7.2 | 5 | 1 | 2 | 4 | 15 | 80 | 2 | 7 |
| BZX84C7V5-V | Z6 | 7.0 | 7.5 | 7.9 | 5 | 1 | 1 | 5 | 15 | 80 | 3 | 7 |
| BZX84C8V2-V | Z7 | 7.7 | 8.2 | 8.7 | 5 | 1 | 0.7 | 5 | 15 | 80 | 4 | 7 |
| BZX84C9V1-V | Z8 | 8.5 | 9.1 | 9.6 | 5 | 1 | 0.5 | 6 | 15 | 100 | 5 | 8 |
| BZX84C10-V | Z9 | 9.4 | 10 | 10.6 | 5 | 1 | 0.2 | 7 | 20 | 150 | 5 | 8 |
| BZX84C11-V | Y1 | 10.4 | 11 | 11.6 | 5 | 1 | 0.1 | 8 | 20 | 150 | 5 | 9 |
| BZX84C12-V | Y2 | 11.4 | 12 | 12.7 | 5 | 1 | 0.1 | 8 | 25 | 150 | 6 | 9 |
| BZX84C13-V | Y3 | 12.4 | 13 | 14.1 | 5 | 1 | 0.1 | 8 | 30 | 170 | 7 | 9 |
| BZX84C15-V | Y4 | 13.8 | 15 | 15.6 | 5 | 1 | 0.05 | 10.5 | 30 | 200 | 7 | 9 |
| BZX84C16-V | Y5 | 15.3 | 16 | 17.1 | 5 | 1 | 0.05 | 11.2 | 40 | 200 | 8 | 9.5 |
| BZX84C18-V | Y6 | 16.8 | 18 | 19.1 | 5 | 1 | 0.05 | 12.6 | 45 | 225 | 8 | 9.5 |
| BZX84C20-V | Y7 | 18.8 | 20 | 21.2 | 5 | 1 | 0.05 | 14.0 | 55 | 225 | 8 | 10 |
| BZX84C22-V | Y8 | 20.8 | 22 | 23.3 | 5 | 1 | 0.05 | 15.4 | 55 | 250 | 8 | 10 |
| BZX84C24-V | Y9 | 22.8 | 24 | 25.6 | 5 | 1 | 0.05 | 16.8 | 70 | 250 | 8 | 10 |
| BZX84C27-V | Y10 | 25.1 | 27 | 28.9 | 2 | 0.5 | 0.05 | 18.9 | 80 | 300 | 8 | 10 |
| BZX84C30-V | Y11 | 28 | 30 | 32 | 2 | 0.5 | 0.05 | 21.0 | 80 | 300 | 8 | 10 |
| BZX84C33-V | Y12 | 31 | 33 | 35 | 2 | 0.5 | 0.05 | 23.1 | 80 | 325 | 8 | 10 |
| BZX84C36-V | Y13 | 34 | 36 | 38 | 2 | 0.5 | 0.05 | 25.2 | 90 | 350 | 8 | 10 |
| BZX84C39-V | Y14 | 37 | 39 | 41 | 2 | 0.5 | 0.05 | 27.3 | 130 | 350 | 10 | 12 |
| BZX84C43-V | Y15 | 40 | 43 | 46 | 2 | 0.5 | 0.05 | 30.1 | 150 | 375 | 10 | 12 |
| BZX84C47-V | Y16 | 44 | 47 | 50 | 2 | 0.5 | 0.05 | 32.9 | 170 | 375 | 10 | 12 |
| BZX84C51-V | Y17 | 48 | 51 | 54 | 2 | 0.5 | 0.05 | 35.7 | 180 | 400 | 10 | 12 |
| BZX84C56-V | Y18 | 52 | 56 | 60 | 2 | 0.5 | 0.05 | 39.2 | 200 | 425 | 9 | 11 |
| BZX84C62-V | Y19 | 58 | 62 | 66 | 2 | 0.5 | 0.05 | 43.4 | 215 | 450 | 9 | 12 |
| BZX84C68-V | Y20 | 64 | 68 | 72 | 2 | 0.5 | 0.05 | 47.6 | 240 | 475 | 10 | 12 |
| BZX84C75-V | Y21 | 70 | 75 | 79 | 2 | 0.5 | 0.05 | 52.5 | 255 | 500 | 10 | 12 |

**ELECTRICAL CHARACTERISTICS** ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)

| PART NUMBER | MARKING CODE | ZENER VOLTAGE RANGE | | | TEST CURRENT | | REVERSE LEAKAGE CURRENT | | DYNAMIC RESISTANCE $f = 1\text{ kHz}$ | | TEMPERATURE COEFFICIENT | |
|-------------|--------------|---------------------|------|------|--------------|-----------|-------------------------|------|--|-----------------------|----------------------------|------|
| | | V_Z at I_{ZT1} | | | I_{ZT1} | I_{ZT2} | I_R at V_R | | Z_Z at I_{ZT1} | Z_{ZK} at I_{ZT2} | α_{VZ} at I_{ZT1} | |
| | | V | | | mA | | μA | V | Ω | | $10^{-4}/^{\circ}\text{C}$ | |
| | | MIN. | NOM. | MAX. | | | | | MAX. | MAX. | MIN. | MAX. |
| BZX84B2V4-V | Z50 | 2.35 | 2.4 | 2.45 | 5 | 1 | 50 | 1 | 100 | 275 | - 9 | - 4 |
| BZX84B2V7-V | Z51 | 2.65 | 2.7 | 2.75 | 5 | 1 | 20 | 1 | 100 | 600 | - 9 | - 4 |
| BZX84B3V0-V | Z52 | 2.94 | 3.0 | 3.06 | 5 | 1 | 10 | 1 | 95 | 600 | - 9 | - 3 |
| BZX84B3V3-V | Z53 | 3.23 | 3.3 | 3.37 | 5 | 1 | 5 | 1 | 95 | 600 | - 8 | - 3 |
| BZX84B3V6-V | Z54 | 3.53 | 3.6 | 3.67 | 5 | 1 | 5 | 1 | 90 | 600 | - 8 | - 3 |
| BZX84B3V9-V | Z55 | 3.82 | 3.9 | 3.98 | 5 | 1 | 3 | 1 | 90 | 600 | - 7 | - 3 |
| BZX84B4V3-V | Z56 | 4.21 | 4.3 | 4.39 | 5 | 1 | 3 | 1 | 90 | 600 | - 6 | - 1 |
| BZX84B4V7-V | Z57 | 4.61 | 4.7 | 4.79 | 5 | 1 | 3 | 2 | 80 | 500 | - 5 | 2 |
| BZX84B5V1-V | Z58 | 5.0 | 5.1 | 5.2 | 5 | 1 | 2 | 2 | 60 | 480 | - 3 | 4 |
| BZX84B5V6-V | Z59 | 5.49 | 5.6 | 5.71 | 5 | 1 | 1 | 2 | 40 | 400 | - 2 | 6 |
| BZX84B6V2-V | Z60 | 6.08 | 6.2 | 6.32 | 5 | 1 | 3 | 4 | 10 | 150 | - 1 | 7 |
| BZX84B6V8-V | Z61 | 6.66 | 6.8 | 6.94 | 5 | 1 | 2 | 4 | 15 | 80 | 2 | 7 |
| BZX84B7V5-V | Z62 | 7.35 | 7.5 | 7.65 | 5 | 1 | 1 | 5 | 15 | 80 | 3 | 7 |
| BZX84B8V2-V | Z63 | 8.04 | 8.2 | 8.36 | 5 | 1 | 0.7 | 5 | 15 | 80 | 4 | 7 |
| BZX84B9V1-V | Z64 | 8.92 | 9.1 | 9.28 | 5 | 1 | 0.5 | 6 | 15 | 100 | 5 | 8 |
| BZX84B10-V | Z65 | 9.8 | 10 | 10.2 | 5 | 1 | 0.2 | 7 | 20 | 150 | 5 | 8 |
| BZX84B11-V | Z66 | 10.8 | 11 | 11.2 | 5 | 1 | 0.1 | 8 | 20 | 150 | 5 | 9 |
| BZX84B12-V | Z67 | 11.8 | 12 | 12.2 | 5 | 1 | 0.1 | 8 | 25 | 150 | 6 | 9 |
| BZX84B13-V | Z68 | 12.7 | 13 | 13.3 | 5 | 1 | 0.1 | 8 | 30 | 170 | 7 | 9 |
| BZX84B15-V | Z69 | 14.7 | 15 | 15.3 | 5 | 1 | 0.05 | 10.5 | 30 | 200 | 7 | 9 |
| BZX84B16-V | Z70 | 15.7 | 16 | 16.3 | 5 | 1 | 0.05 | 11.2 | 40 | 200 | 8 | 9.5 |
| BZX84B18-V | Z71 | 17.6 | 18 | 18.4 | 5 | 1 | 0.05 | 12.6 | 45 | 225 | 8 | 9.5 |
| BZX84B20-V | Z72 | 19.6 | 20 | 20.4 | 5 | 1 | 0.05 | 14 | 55 | 225 | 8 | 10 |
| BZX84B22-V | Z73 | 21.6 | 22 | 22.4 | 5 | 1 | 0.05 | 15.4 | 55 | 250 | 8 | 10 |
| BZX84B24-V | Z74 | 23.5 | 24 | 24.5 | 5 | 1 | 0.05 | 16.8 | 70 | 250 | 8 | 10 |
| BZX84B27-V | Z75 | 26.5 | 27 | 27.5 | 2 | 0.5 | 0.05 | 18.9 | 80 | 300 | 8 | 10 |
| BZX84B30-V | Z76 | 29.4 | 30 | 30.6 | 2 | 0.5 | 0.05 | 21 | 80 | 300 | 8 | 10 |
| BZX84B33-V | Z77 | 32.3 | 33 | 33.7 | 2 | 0.5 | 0.05 | 23.1 | 80 | 325 | 8 | 10 |
| BZX84B36-V | Z78 | 35.3 | 36 | 36.7 | 2 | 0.5 | 0.05 | 25.2 | 90 | 350 | 8 | 10 |
| BZX84B39-V | Z79 | 38.2 | 39 | 39.8 | 2 | 0.5 | 0.05 | 27.3 | 130 | 350 | 10 | 12 |
| BZX84B43-V | Z80 | 42.1 | 43 | 43.9 | 2 | 0.5 | 0.05 | 30.1 | 150 | 375 | 10 | 12 |
| BZX84B47-V | Z81 | 46.1 | 47 | 47.9 | 2 | 0.5 | 0.05 | 32.9 | 170 | 375 | 10 | 12 |
| BZX84B51-V | Z82 | 50 | 51 | 52 | 2 | 0.5 | 0.05 | 35.7 | 180 | 400 | 10 | 12 |
| BZX84B56-V | Z83 | 54.9 | 56 | 57.1 | 2 | 0.5 | 0.05 | 39.2 | 200 | 425 | 9 | 11 |
| BZX84B62-V | Z84 | 60.8 | 62 | 63.2 | 2 | 0.5 | 0.05 | 43.4 | 215 | 450 | 9 | 12 |
| BZX84B68-V | Z85 | 66.6 | 68 | 69.4 | 2 | 0.5 | 0.05 | 47.6 | 240 | 475 | 10 | 12 |
| BZX84B75-V | Z86 | 73.5 | 75 | 76.5 | 2 | 0.5 | 0.05 | 52.5 | 255 | 500 | 10 | 12 |

BASIC CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)

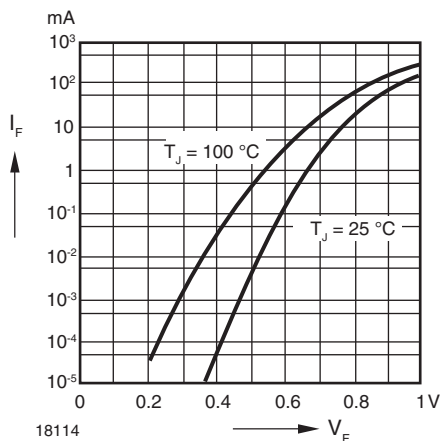


Fig. 1 - Forward Characteristics

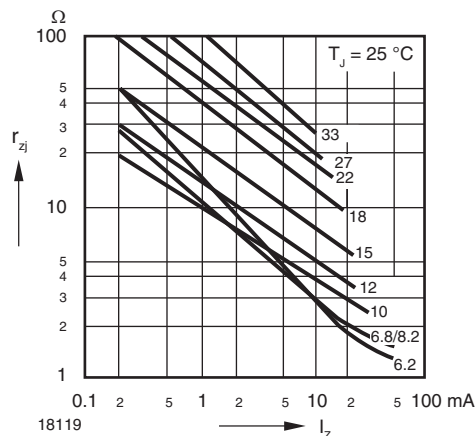


Fig. 4 - Dynamic Resistance vs. Zener Current

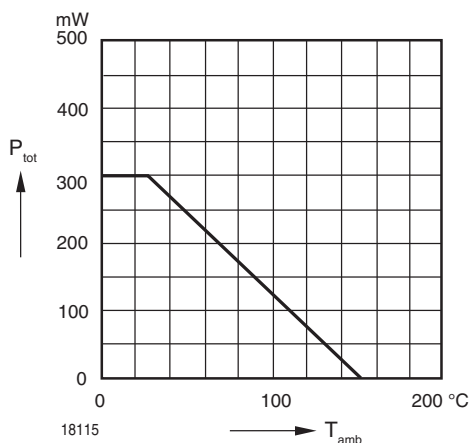


Fig. 2 - Admissible Power Dissipation vs. Ambient Temperature

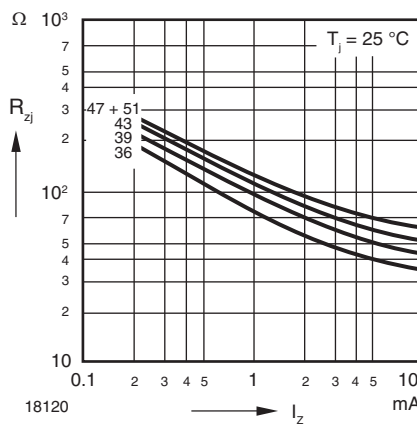


Fig. 5 - Dynamic Resistance vs. Zener Current

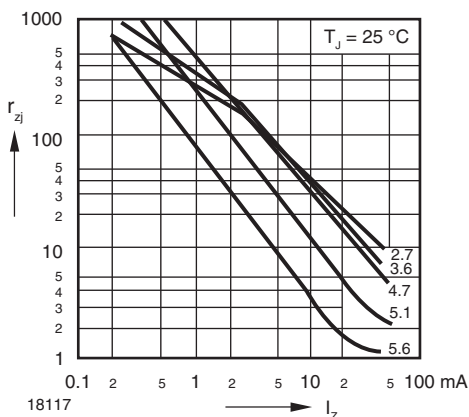


Fig. 3 - Dynamic Resistance vs. Zener Current

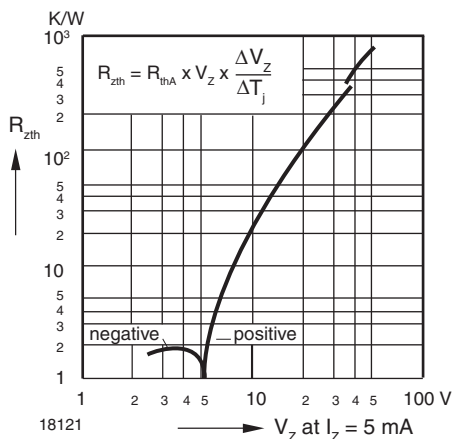


Fig. 6 - Thermal Differential Resistance vs. Zener Voltage

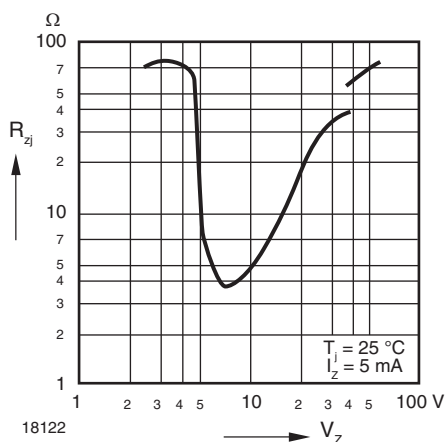


Fig. 7 - Dynamic Resistance vs. Zener Voltage

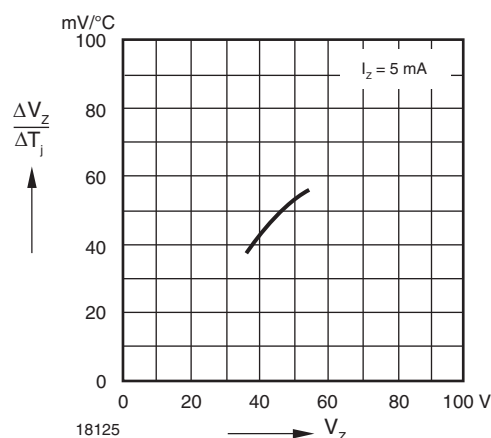


Fig. 10 - Temperature Dependence of Zener Voltage vs. Zener Voltage

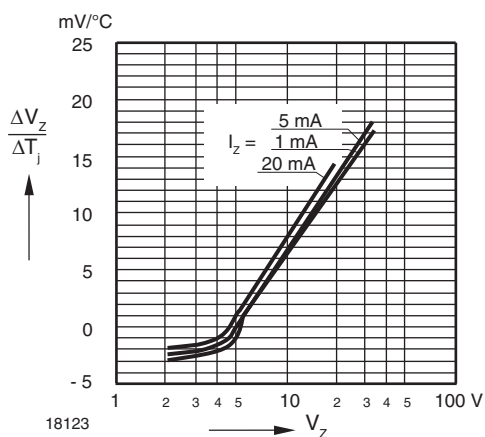


Fig. 8 - Temperature Dependence of Zener Voltage vs. Zener Voltage

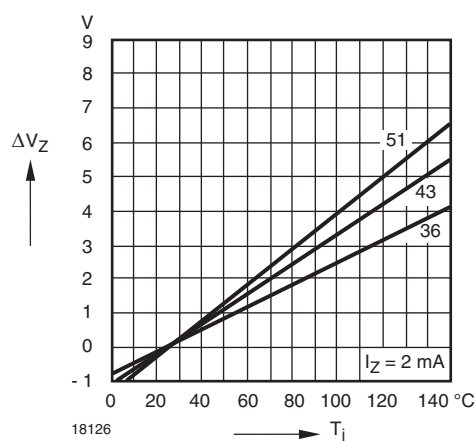


Fig. 11 - Change of Zener Voltage vs. Junction Temperature

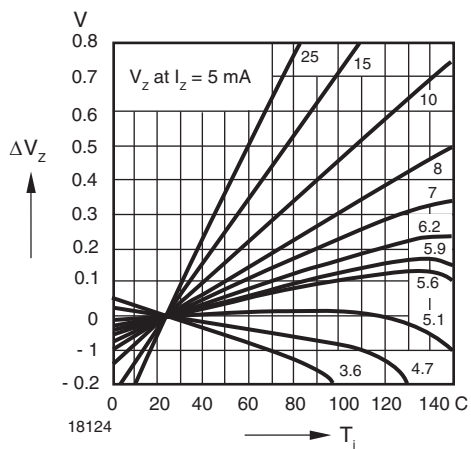


Fig. 9 - Change of Zener Voltage vs. Junction Temperature

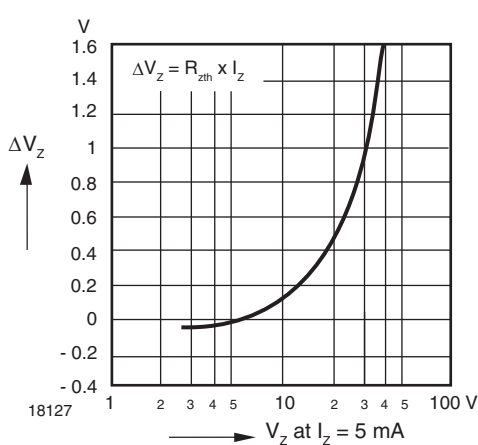


Fig. 12 - Change of Zener Voltage from Turn-on up to the Point of Thermal Equilibrium vs. Zener Voltage

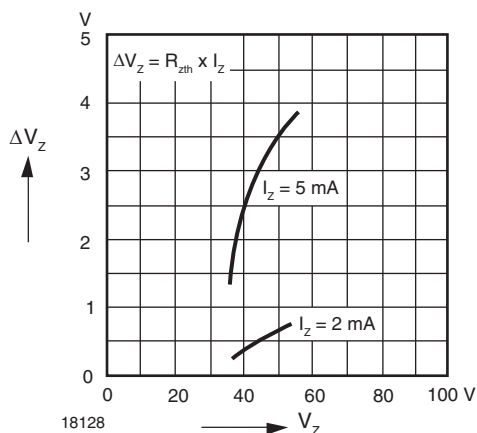


Fig. 13 - Change of Zener Voltage from Turn-on up to the Point of Thermal Equilibrium vs. Zener Voltage

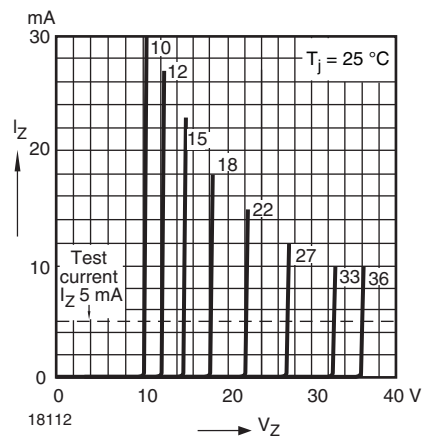


Fig. 15 - Breakdown Characteristics

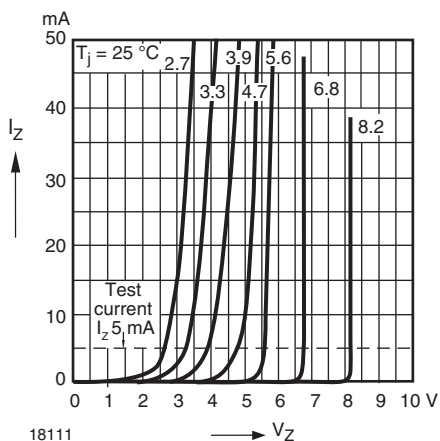


Fig. 14 - Breakdown Characteristics

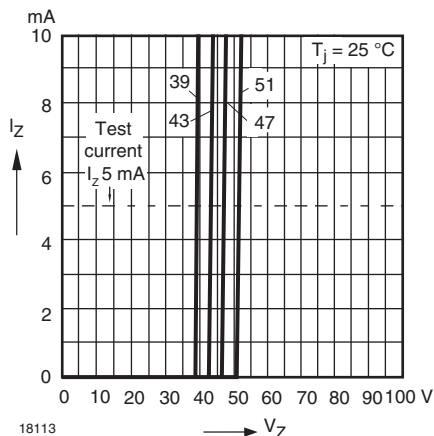


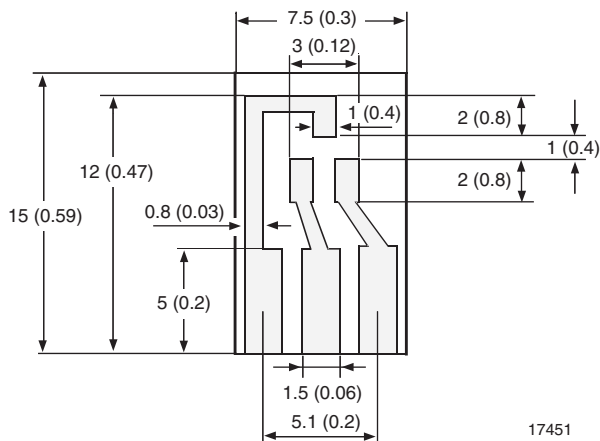
Fig. 16 - Breakdown Characteristics



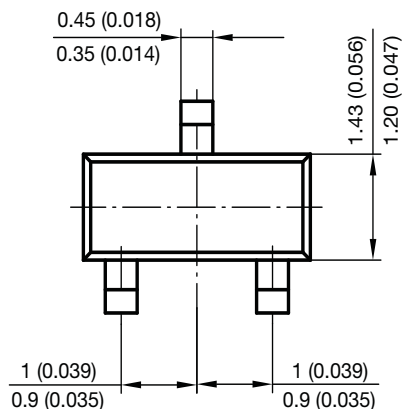
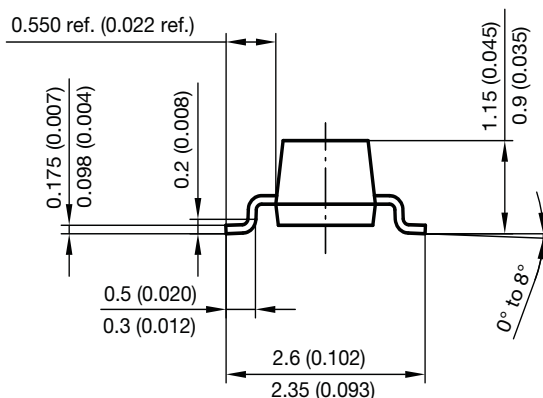
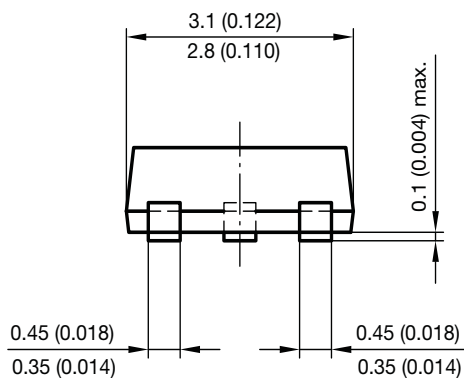
LAYOUT FOR R_{θ} , J_A TEST

Thickness: fiberglass 0.059" (1.5 mm)

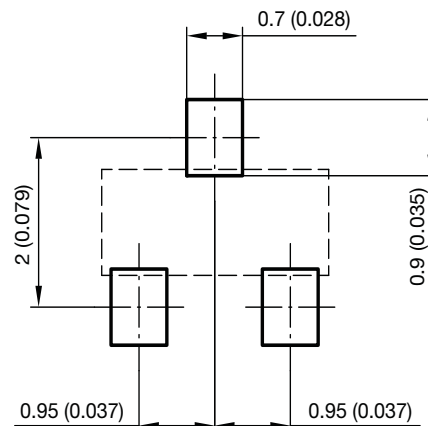
Copper leads 0.012" (0.3 mm)



PACKAGE DIMENSIONS in millimeters (inches): **SOT-23**



Foot print recommendation:





Disclaimer

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Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

Mouser Electronics

Authorized Distributor

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Vishay:

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[BZX84C11-V-GS08](#) [BZX84C10-V-GS08](#) [BZX84C16-V-GS08](#) [BZX84C27-V-GS08](#) [BZX84C13-V-GS08](#) [BZX84C4V3-V-GS08](#)
[BZX84C9V1-V-GS08](#) [BZX84C22-V-GS08](#) [BZX84C39-V-GS08](#) [BZX84C15-V-GS08](#) [BZX84C2V7-V-GS08](#)
[BZX84C33-V-GS08](#) [BZX84C68-V-GS08](#) [BZX84C43-V-GS08](#) [BZX84C5V6-V-GS08](#) [BZX84C6V8-V-GS08](#)
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[BZX84C51-V-GS08](#) [BZX84C47-V-GS08](#) [BZX84C3V3-V-GS08](#) [BZX84C8V2-V-GS08](#) [BZX84C3V6-V-GS08](#)
[BZX84C6V2-V-GS08](#) [BZX84C18-V-GS08](#) [BZX84C3V9-V-GS08](#) [BZX84C20-V-GS08](#) [BZX84B10-V-GS08](#) [BZX84B11-V-GS08](#)
[BZX84B12-V-GS08](#) [BZX84B13-V-GS08](#) [BZX84B15-V-GS08](#) [BZX84B16-V-GS08](#) [BZX84B18-V-GS08](#)
[BZX84B2V4-V-GS08](#) [BZX84B2V7-V-GS08](#) [BZX84B20-V-GS08](#) [BZX84B22-V-GS08](#) [BZX84B24-V-GS08](#) [BZX84B27-V-GS08](#)
[BZX84B3V0-V-GS08](#) [BZX84B3V3-V-GS08](#) [BZX84B3V6-V-GS08](#) [BZX84B3V9-V-GS08](#) [BZX84B30-V-GS08](#)
[BZX84B33-V-GS08](#) [BZX84B36-V-GS08](#) [BZX84B39-V-GS08](#) [BZX84B4V3-V-GS08](#) [BZX84B4V7-V-GS08](#) [BZX84B47-V-GS08](#)
[BZX84B5V1-V-GS08](#) [BZX84B5V6-V-GS08](#) [BZX84B56-V-GS08](#) [BZX84B6V8-V-GS08](#) [BZX84B62-V-GS08](#)
[BZX84B7V5-V-GS08](#) [BZX84B75-V-GS08](#) [BZX84B8V2-V-GS08](#) [BZX84B9V1-V-GS08](#) [BZX84C56-V-GS08](#)
[BZX84C62-V-GS08](#) [BZX84C75-V-GS08](#) [BZX84B10-V-GS18](#) [BZX84B11-V-GS18](#) [BZX84B12-V-GS18](#) [BZX84B13-V-GS18](#)
[BZX84B15-V-GS18](#) [BZX84B16-V-GS18](#) [BZX84B18-V-GS18](#) [BZX84B2V4-V-GS18](#) [BZX84B2V7-V-GS18](#)
[BZX84B20-V-GS18](#) [BZX84B22-V-GS18](#) [BZX84B24-V-GS18](#) [BZX84B27-V-GS18](#) [BZX84B3V0-V-GS18](#) [BZX84B3V3-V-GS18](#)
[BZX84B3V6-V-GS18](#) [BZX84B3V9-V-GS18](#) [BZX84B30-V-GS18](#) [BZX84B33-V-GS18](#) [BZX84B36-V-GS18](#)
[BZX84B39-V-GS18](#) [BZX84B4V3-V-GS18](#) [BZX84B4V7-V-GS18](#) [BZX84B47-V-GS18](#) [BZX84B5V1-V-GS18](#)
[BZX84B5V6-V-GS18](#) [BZX84B56-V-GS18](#) [BZX84B6V2-V-GS18](#) [BZX84B6V8-V-GS18](#)