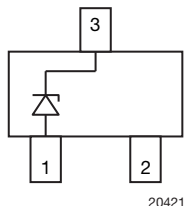


## Small Signal Zener Diodes



### 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<br>FLAMMABILITY RATING | MOISTURE SENSITIVITY<br>LEVEL        | SOLDERING<br>CONDITIONS  |
|--------------|--------|-----------------------------------------|--------------------------------------|--------------------------|
| SOT-23       | 8.8 mg | UL 94 V-0                               | MSL level 1<br>(according J-STD-020) | 260 °C/10 s at terminals |

### ABSOLUTE MAXIMUM RATINGS

| PARAMETER                                  | TEST CONDITION                                                                         | SYMBOL     | VALUE         | UNIT |
|--------------------------------------------|----------------------------------------------------------------------------------------|------------|---------------|------|
| Power dissipation                          | $T_{amb} = 25\text{ °C}$ ,<br>device on fiberglass substrate,<br>acc. layout on page 7 | $P_{tot}$  | 300           | mW   |
| Thermal resistance junction to ambient air | $T_{amb} = 25\text{ °C}$ ,<br>device on fiberglass substrate,<br>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<br>$f = 1\text{ kHz}$ |                       | TEMPERATURE COEFFICIENT    |      |
|-------------|--------------|---------------------|------|------|--------------|-----------|-------------------------|------|------------------------------------------|-----------------------|----------------------------|------|
|             |              | $V_Z$ at $I_{ZT1}$  |      |      | $I_{ZT1}$    | $I_{ZT2}$ | $I_R$ at $V_R$          |      | $Z_Z$ at $I_{ZT1}$                       | $Z_{ZK}$ at $I_{ZT2}$ | $\alpha_{VZ}$ at $I_{ZT1}$ |      |
|             |              | V                   |      |      | mA           |           | $\mu\text{A}$           | V    | $\Omega$                                 |                       | $10^{-4}/^{\circ}\text{C}$ |      |
|             |              | 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<br>NUMBER | MARKING<br>CODE | ZENER VOLTAGE<br>RANGE |      |      | TEST CURRENT |           | REVERSE<br>LEAKAGE<br>CURRENT |      | DYNAMIC<br>RESISTANCE<br>f = 1 kHz |                       | TEMPERATURE<br>COEFFICIENT |      |
|----------------|-----------------|------------------------|------|------|--------------|-----------|-------------------------------|------|------------------------------------|-----------------------|----------------------------|------|
|                |                 | $V_Z$ at $I_{ZT1}$     |      |      | $I_{ZT1}$    | $I_{ZT2}$ | $I_R$ at $V_R$                |      | $Z_Z$ at $I_{ZT1}$                 | $Z_{ZK}$ at $I_{ZT2}$ | $\alpha_{VZ}$ at $I_{ZT1}$ |      |
|                |                 | V                      |      |      | mA           |           | $\mu\text{A}$                 | V    | $\Omega$                           |                       | $10^{-4}/^{\circ}\text{C}$ |      |
|                |                 | 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)

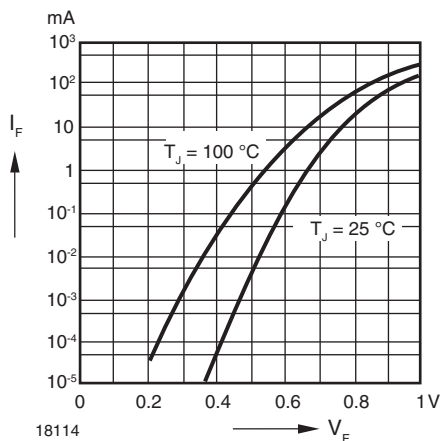


Fig. 1 - Forward Characteristics

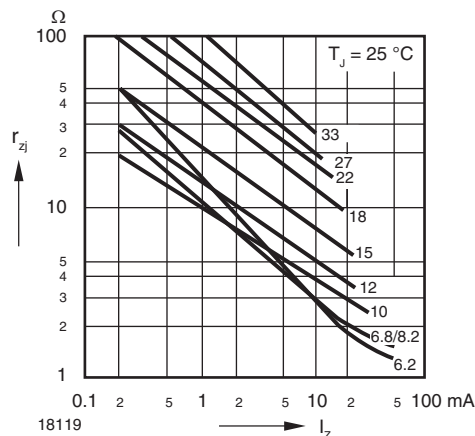


Fig. 4 - Dynamic Resistance vs. Zener Current

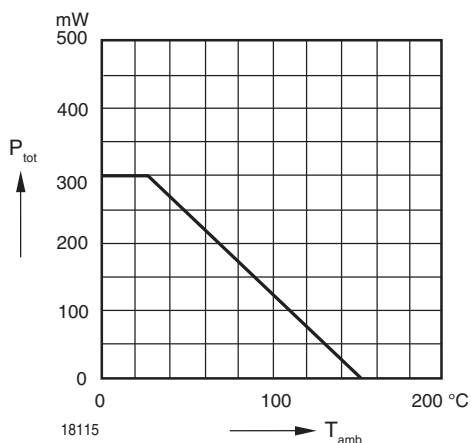


Fig. 2 - Admissible Power Dissipation vs. Ambient Temperature

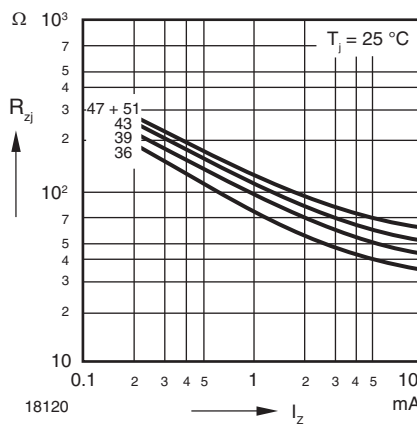


Fig. 5 - Dynamic Resistance vs. Zener Current

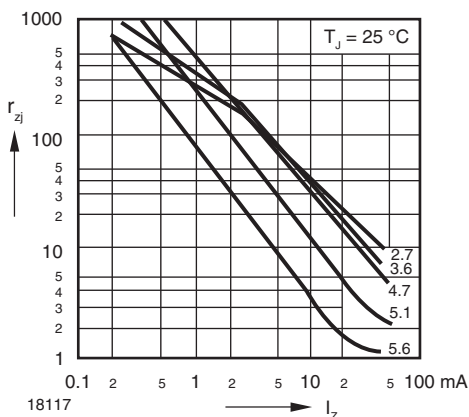


Fig. 3 - Dynamic Resistance vs. Zener Current

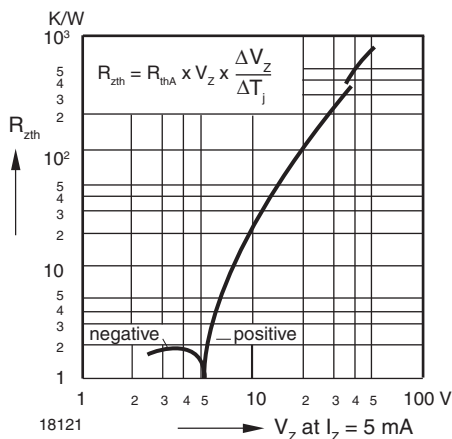


Fig. 6 - Thermal Differential Resistance vs. Zener Voltage

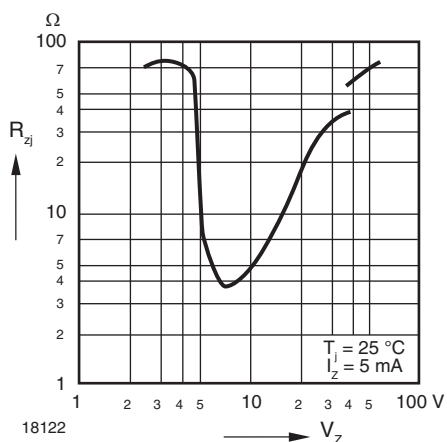


Fig. 7 - Dynamic Resistance vs. Zener Voltage

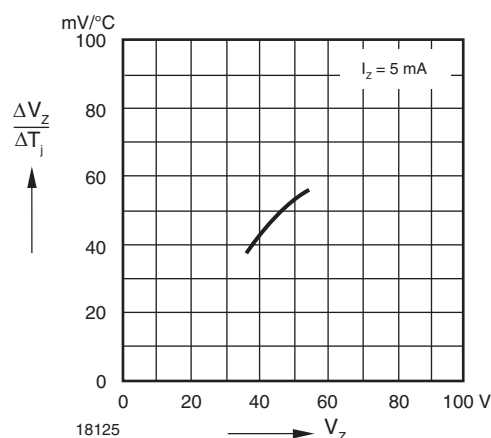


Fig. 10 - Temperature Dependence of Zener Voltage vs. Zener Voltage

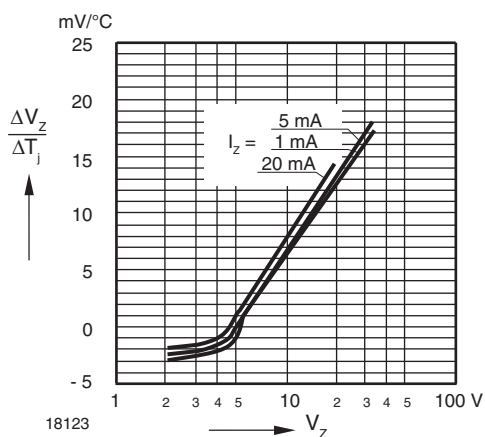


Fig. 8 - Temperature Dependence of Zener Voltage vs. Zener Voltage

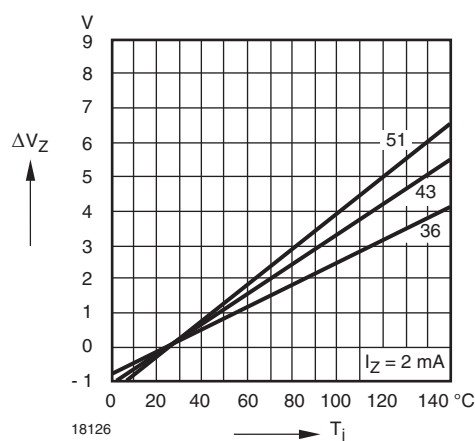


Fig. 11 - Change of Zener Voltage vs. Junction Temperature

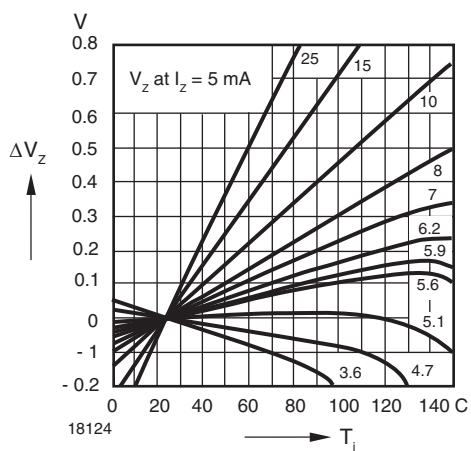


Fig. 9 - Change of Zener Voltage vs. Junction Temperature

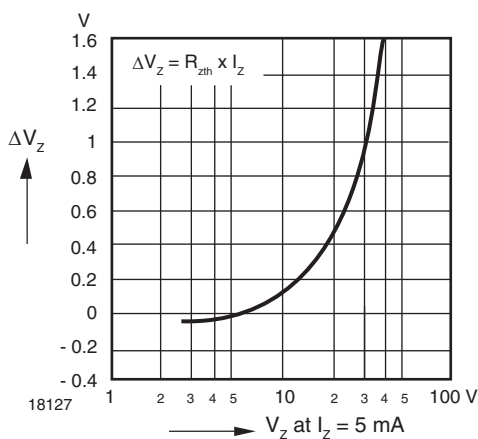


Fig. 12 - Change of Zener Voltage from Turn-on up to the Point of Thermal Equilibrium vs. Zener Voltage

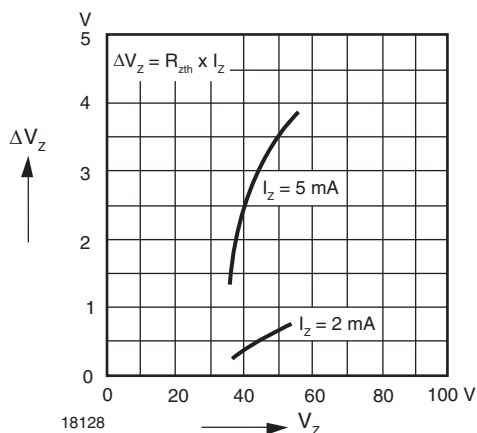


Fig. 13 - Change of Zener Voltage from Turn-on up to the Point of Thermal Equilibrium vs. Zener Voltage

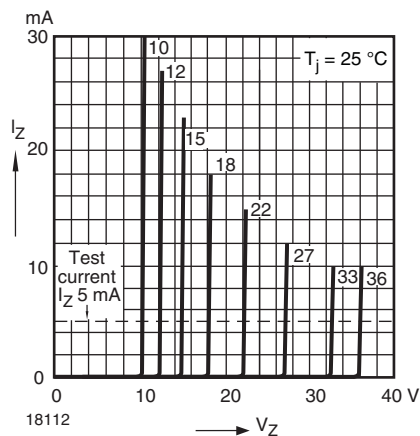


Fig. 15 - Breakdown Characteristics

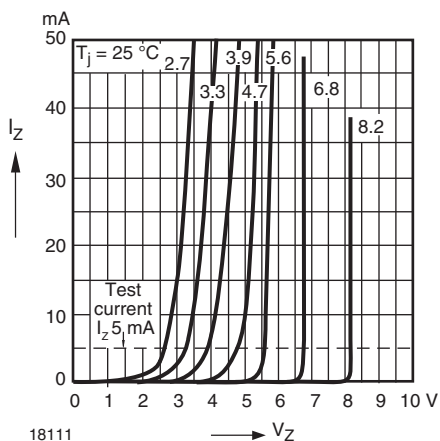


Fig. 14 - Breakdown Characteristics

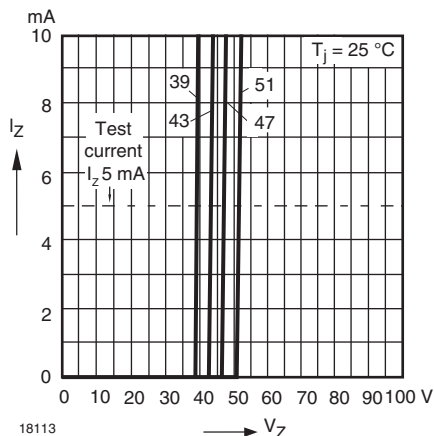


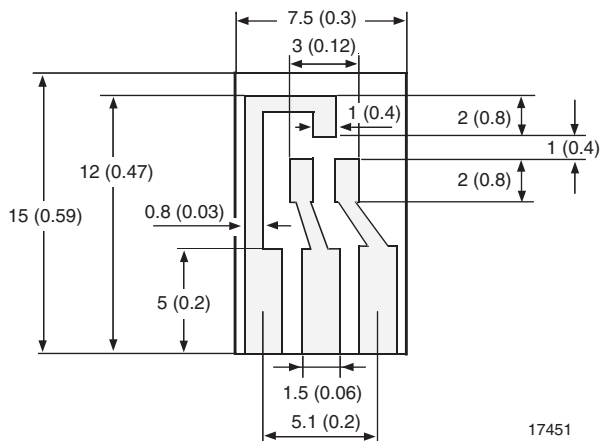
Fig. 16 - Breakdown Characteristics



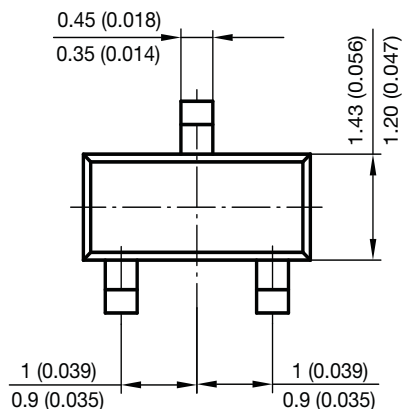
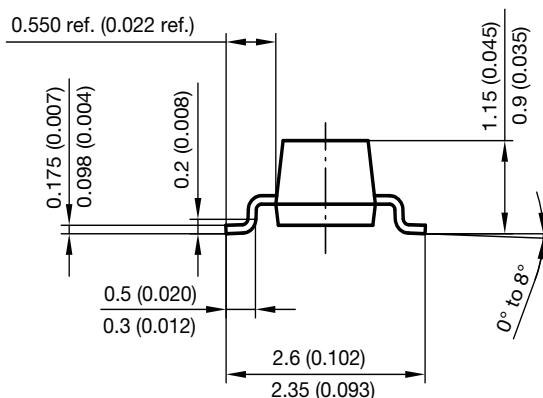
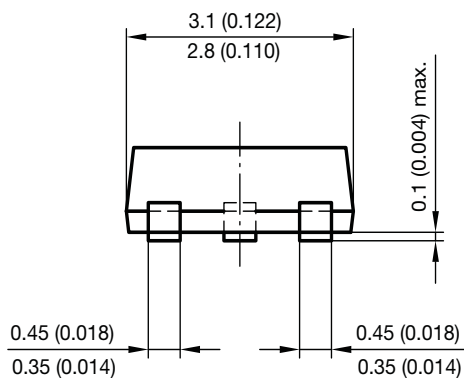
**LAYOUT FOR  $R_{\theta}$ ,  $J_A$  TEST**

Thickness: fiberglass 0.059" (1.5 mm)

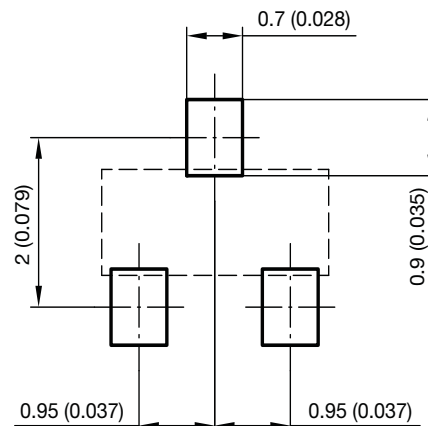
Copper leads 0.012" (0.3 mm)



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



Foot print recommendation:





## Disclaimer

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