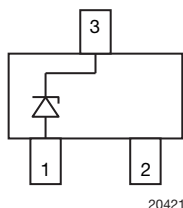


## Small Signal Zener Diodes



20421

### FEATURES

- Silicon planar Zener diodes
- The Zener voltages are graded according to the international E24 standard. Standard Zener voltage tolerance is  $\pm 5\%$ , indicated by the "C" in the ordering code. Replace "C" with "B" for  $\pm 2\%$  tolerance.
- AEC-Q101 qualified
- ESD capability acc. to AEC-Q101:  
human body model:  $> 8\text{ kV}$ ,  
machine model:  $> 800\text{ V}$
- Base P/N-E3 - RoHS-compliant, commercial grade
- Base P/N-HE3 - RoHS-compliant, AEC-Q101 qualified
- Material categorization: For definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)


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-series | BZX84C2V4-E3-08 to BZX84C75-E3-08   | 3000 (8 mm tape on 7" reel)    | 15 000                 |
|              | BZX84B2V4-E3-08 to BZX84B75-E3-08   |                                |                        |
|              | BZX84C2V4-HE3-08 to BZX84C75-HE3-08 |                                |                        |
|              | BZX84B2V4-HE3-08 to BZX84B75-HE3-08 |                                |                        |
|              | BZX84C2V4-E3-18 to BZX84C75-E3-18   | 10 000 (8 mm tape on 13" reel) | 10 000                 |
|              | BZX84B2V4-E3-18 to BZX84B75-E3-18   |                                |                        |
|              | BZX84C2V4-HE3-18 to BZX84C75-HE3-18 |                                |                        |
|              | BZX84B2V4-HE3-18 to BZX84B75-HE3-18 |                                |                        |

### PACKAGE

| PACKAGE NAME | WEIGHT | MOLDING COMPOUND<br>FLAMMABILITY RATING | MOISTURE SENSITIVITY<br>LEVEL        | SOLDERING 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                          | $T_{amb} = 25\text{ °C}$ , device on fiberglass substrate,<br>acc. layout on page 7 | $P_{tot}$  | 300           | mW   |
| Thermal resistance junction to ambient air | $T_{amb} = 25\text{ °C}$ , 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   |
| Operating temperature range                |                                                                                     | $T_{op}$   | - 55 to + 150 | °C   |

**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. |
| BZX84C2V4      | Z11             | 2.2                    | 2.4  | 2.6  | 5            | 1         | 50                            | 1    | 100                                | 275                   | - 9                        | - 4  |
| BZX84C2V7      | Z12             | 2.5                    | 2.7  | 2.9  | 5            | 1         | 20                            | 1    | 100                                | 600                   | - 9                        | - 4  |
| BZX84C3V0      | Z13             | 2.8                    | 3.0  | 3.2  | 5            | 1         | 10                            | 1    | 95                                 | 600                   | - 9                        | - 3  |
| BZX84C3V3      | Z14             | 3.1                    | 3.3  | 3.5  | 5            | 1         | 5                             | 1    | 95                                 | 600                   | - 8                        | - 3  |
| BZX84C3V6      | Z15             | 3.4                    | 3.6  | 3.8  | 5            | 1         | 5                             | 1    | 90                                 | 600                   | - 8                        | - 3  |
| BZX84C3V9      | Z16             | 3.7                    | 3.9  | 4.1  | 5            | 1         | 3                             | 1    | 90                                 | 600                   | - 7                        | - 3  |
| BZX84C4V3      | Z17             | 4.0                    | 4.3  | 4.6  | 5            | 1         | 3                             | 1    | 90                                 | 600                   | - 6                        | - 1  |
| BZX84C4V7      | Z1              | 4.4                    | 4.7  | 5.0  | 5            | 1         | 3                             | 2    | 80                                 | 500                   | - 5                        | 2    |
| BZX84C5V1      | Z2              | 4.8                    | 5.1  | 5.4  | 5            | 1         | 2                             | 2    | 60                                 | 480                   | - 3                        | 4    |
| BZX84C5V6      | Z3              | 5.2                    | 5.6  | 6.0  | 5            | 1         | 1                             | 2    | 40                                 | 400                   | - 2                        | 6    |
| BZX84C6V2      | Z4              | 5.8                    | 6.2  | 6.6  | 5            | 1         | 3                             | 4    | 10                                 | 150                   | - 1                        | 7    |
| BZX84C6V8      | Z5              | 6.4                    | 6.8  | 7.2  | 5            | 1         | 2                             | 4    | 15                                 | 80                    | 2                          | 7    |
| BZX84C7V5      | Z6              | 7.0                    | 7.5  | 7.9  | 5            | 1         | 1                             | 5    | 15                                 | 80                    | 3                          | 7    |
| BZX84C8V2      | Z7              | 7.7                    | 8.2  | 8.7  | 5            | 1         | 0.7                           | 5    | 15                                 | 80                    | 4                          | 7    |
| BZX84C9V1      | Z8              | 8.5                    | 9.1  | 9.6  | 5            | 1         | 0.5                           | 6    | 15                                 | 100                   | 5                          | 8    |
| BZX84C10       | Z9              | 9.4                    | 10   | 10.6 | 5            | 1         | 0.2                           | 7    | 20                                 | 150                   | 5                          | 8    |
| BZX84C11       | Y1              | 10.4                   | 11   | 11.6 | 5            | 1         | 0.1                           | 8    | 20                                 | 150                   | 5                          | 9    |
| BZX84C12       | Y2              | 11.4                   | 12   | 12.7 | 5            | 1         | 0.1                           | 8    | 25                                 | 150                   | 6                          | 9    |
| BZX84C13       | Y3              | 12.4                   | 13   | 14.1 | 5            | 1         | 0.1                           | 8    | 30                                 | 170                   | 7                          | 9    |
| BZX84C15       | Y4              | 13.8                   | 15   | 15.6 | 5            | 1         | 0.05                          | 10.5 | 30                                 | 200                   | 7                          | 9    |
| BZX84C16       | Y5              | 15.3                   | 16   | 17.1 | 5            | 1         | 0.05                          | 11.2 | 40                                 | 200                   | 8                          | 9.5  |
| BZX84C18       | Y6              | 16.8                   | 18   | 19.1 | 5            | 1         | 0.05                          | 12.6 | 45                                 | 225                   | 8                          | 9.5  |
| BZX84C20       | Y7              | 18.8                   | 20   | 21.2 | 5            | 1         | 0.05                          | 14.0 | 55                                 | 225                   | 8                          | 10   |
| BZX84C22       | Y8              | 20.8                   | 22   | 23.3 | 5            | 1         | 0.05                          | 15.4 | 55                                 | 250                   | 8                          | 10   |
| BZX84C24       | Y9              | 22.8                   | 24   | 25.6 | 5            | 1         | 0.05                          | 16.8 | 70                                 | 250                   | 8                          | 10   |
| BZX84C27       | Y10             | 25.1                   | 27   | 28.9 | 2            | 0.5       | 0.05                          | 18.9 | 80                                 | 300                   | 8                          | 10   |
| BZX84C30       | Y11             | 28                     | 30   | 32   | 2            | 0.5       | 0.05                          | 21.0 | 80                                 | 300                   | 8                          | 10   |
| BZX84C33       | Y12             | 31                     | 33   | 35   | 2            | 0.5       | 0.05                          | 23.1 | 80                                 | 325                   | 8                          | 10   |
| BZX84C36       | Y13             | 34                     | 36   | 38   | 2            | 0.5       | 0.05                          | 25.2 | 90                                 | 350                   | 8                          | 10   |
| BZX84C39       | Y14             | 37                     | 39   | 41   | 2            | 0.5       | 0.05                          | 27.3 | 130                                | 350                   | 10                         | 12   |
| BZX84C43       | Y15             | 40                     | 43   | 46   | 2            | 0.5       | 0.05                          | 30.1 | 150                                | 375                   | 10                         | 12   |
| BZX84C47       | Y16             | 44                     | 47   | 50   | 2            | 0.5       | 0.05                          | 32.9 | 170                                | 375                   | 10                         | 12   |
| BZX84C51       | Y17             | 48                     | 51   | 54   | 2            | 0.5       | 0.05                          | 35.7 | 180                                | 400                   | 10                         | 12   |
| BZX84C56       | Y18             | 52                     | 56   | 60   | 2            | 0.5       | 0.05                          | 39.2 | 200                                | 425                   | 9                          | 11   |
| BZX84C62       | Y19             | 58                     | 62   | 66   | 2            | 0.5       | 0.05                          | 43.4 | 215                                | 450                   | 9                          | 12   |
| BZX84C68       | Y20             | 64                     | 68   | 72   | 2            | 0.5       | 0.05                          | 47.6 | 240                                | 475                   | 10                         | 12   |
| BZX84C75       | 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      | Z50             | 2.35                   | 2.4  | 2.45 | 5            | 1         | 50                            | 1    | 100                                | 275                   | - 9                        | - 4  |
| BZX84B2V7      | Z51             | 2.65                   | 2.7  | 2.75 | 5            | 1         | 20                            | 1    | 100                                | 600                   | - 9                        | - 4  |
| BZX84B3V0      | Z52             | 2.94                   | 3.0  | 3.06 | 5            | 1         | 10                            | 1    | 95                                 | 600                   | - 9                        | - 3  |
| BZX84B3V3      | Z53             | 3.23                   | 3.3  | 3.37 | 5            | 1         | 5                             | 1    | 95                                 | 600                   | - 8                        | - 3  |
| BZX84B3V6      | Z54             | 3.53                   | 3.6  | 3.67 | 5            | 1         | 5                             | 1    | 90                                 | 600                   | - 8                        | - 3  |
| BZX84B3V9      | Z55             | 3.82                   | 3.9  | 3.98 | 5            | 1         | 3                             | 1    | 90                                 | 600                   | - 7                        | - 3  |
| BZX84B4V3      | Z56             | 4.21                   | 4.3  | 4.39 | 5            | 1         | 3                             | 1    | 90                                 | 600                   | - 6                        | - 1  |
| BZX84B4V7      | Z57             | 4.61                   | 4.7  | 4.79 | 5            | 1         | 3                             | 2    | 80                                 | 500                   | - 5                        | 2    |
| BZX84B5V1      | Z58             | 5.0                    | 5.1  | 5.2  | 5            | 1         | 2                             | 2    | 60                                 | 480                   | - 3                        | 4    |
| BZX84B5V6      | Z59             | 5.49                   | 5.6  | 5.71 | 5            | 1         | 1                             | 2    | 40                                 | 400                   | - 2                        | 6    |
| BZX84B6V2      | Z60             | 6.08                   | 6.2  | 6.32 | 5            | 1         | 3                             | 4    | 10                                 | 150                   | - 1                        | 7    |
| BZX84B6V8      | Z61             | 6.66                   | 6.8  | 6.94 | 5            | 1         | 2                             | 4    | 15                                 | 80                    | 2                          | 7    |
| BZX84B7V5      | Z62             | 7.35                   | 7.5  | 7.65 | 5            | 1         | 1                             | 5    | 15                                 | 80                    | 3                          | 7    |
| BZX84B8V2      | Z63             | 8.04                   | 8.2  | 8.36 | 5            | 1         | 0.7                           | 5    | 15                                 | 80                    | 4                          | 7    |
| BZX84B9V1      | Z64             | 8.92                   | 9.1  | 9.28 | 5            | 1         | 0.5                           | 6    | 15                                 | 100                   | 5                          | 8    |
| BZX84B10       | Z65             | 9.8                    | 10   | 10.2 | 5            | 1         | 0.2                           | 7    | 20                                 | 150                   | 5                          | 8    |
| BZX84B11       | Z66             | 10.8                   | 11   | 11.2 | 5            | 1         | 0.1                           | 8    | 20                                 | 150                   | 5                          | 9    |
| BZX84B12       | Z67             | 11.8                   | 12   | 12.2 | 5            | 1         | 0.1                           | 8    | 25                                 | 150                   | 6                          | 9    |
| BZX84B13       | Z68             | 12.7                   | 13   | 13.3 | 5            | 1         | 0.1                           | 8    | 30                                 | 170                   | 7                          | 9    |
| BZX84B15       | Z69             | 14.7                   | 15   | 15.3 | 5            | 1         | 0.05                          | 10.5 | 30                                 | 200                   | 7                          | 9    |
| BZX84B16       | Z70             | 15.7                   | 16   | 16.3 | 5            | 1         | 0.05                          | 11.2 | 40                                 | 200                   | 8                          | 9.5  |
| BZX84B18       | Z71             | 17.6                   | 18   | 18.4 | 5            | 1         | 0.05                          | 12.6 | 45                                 | 225                   | 8                          | 9.5  |
| BZX84B20       | Z72             | 19.6                   | 20   | 20.4 | 5            | 1         | 0.05                          | 14   | 55                                 | 225                   | 8                          | 10   |
| BZX84B22       | Z73             | 21.6                   | 22   | 22.4 | 5            | 1         | 0.05                          | 15.4 | 55                                 | 250                   | 8                          | 10   |
| BZX84B24       | Z74             | 23.5                   | 24   | 24.5 | 5            | 1         | 0.05                          | 16.8 | 70                                 | 250                   | 8                          | 10   |
| BZX84B27       | Z75             | 26.5                   | 27   | 27.5 | 2            | 0.5       | 0.05                          | 18.9 | 80                                 | 300                   | 8                          | 10   |
| BZX84B30       | Z76             | 29.4                   | 30   | 30.6 | 2            | 0.5       | 0.05                          | 21   | 80                                 | 300                   | 8                          | 10   |
| BZX84B33       | Z77             | 32.3                   | 33   | 33.7 | 2            | 0.5       | 0.05                          | 23.1 | 80                                 | 325                   | 8                          | 10   |
| BZX84B36       | Z78             | 35.3                   | 36   | 36.7 | 2            | 0.5       | 0.05                          | 25.2 | 90                                 | 350                   | 8                          | 10   |
| BZX84B39       | Z79             | 38.2                   | 39   | 39.8 | 2            | 0.5       | 0.05                          | 27.3 | 130                                | 350                   | 10                         | 12   |
| BZX84B43       | Z80             | 42.1                   | 43   | 43.9 | 2            | 0.5       | 0.05                          | 30.1 | 150                                | 375                   | 10                         | 12   |
| BZX84B47       | Z81             | 46.1                   | 47   | 47.9 | 2            | 0.5       | 0.05                          | 32.9 | 170                                | 375                   | 10                         | 12   |
| BZX84B51       | Z82             | 50                     | 51   | 52   | 2            | 0.5       | 0.05                          | 35.7 | 180                                | 400                   | 10                         | 12   |
| BZX84B56       | Z83             | 54.9                   | 56   | 57.1 | 2            | 0.5       | 0.05                          | 39.2 | 200                                | 425                   | 9                          | 11   |
| BZX84B62       | Z84             | 60.8                   | 62   | 63.2 | 2            | 0.5       | 0.05                          | 43.4 | 215                                | 450                   | 9                          | 12   |
| BZX84B68       | Z85             | 66.6                   | 68   | 69.4 | 2            | 0.5       | 0.05                          | 47.6 | 240                                | 475                   | 10                         | 12   |
| BZX84B75       | Z86             | 73.5                   | 75   | 76.5 | 2            | 0.5       | 0.05                          | 52.5 | 255                                | 500                   | 10                         | 12   |

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

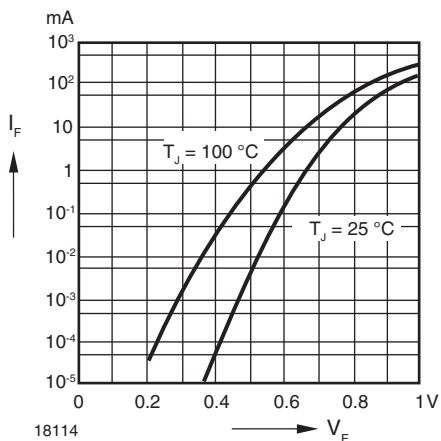


Fig. 1 - Forward Characteristics

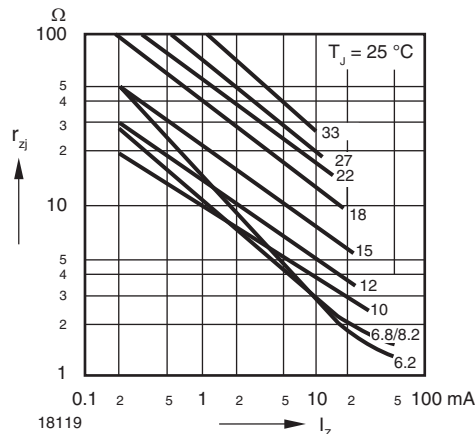


Fig. 4 - Dynamic Resistance vs. Zener Current

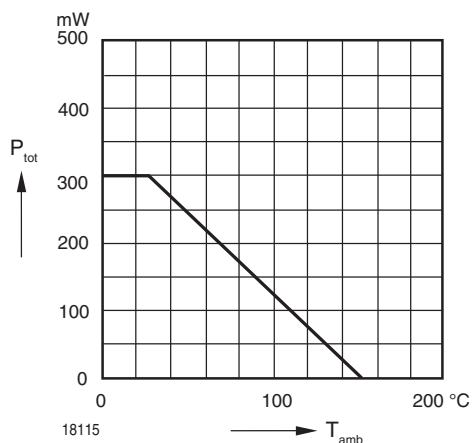


Fig. 2 - Admissible Power Dissipation vs. Ambient Temperature

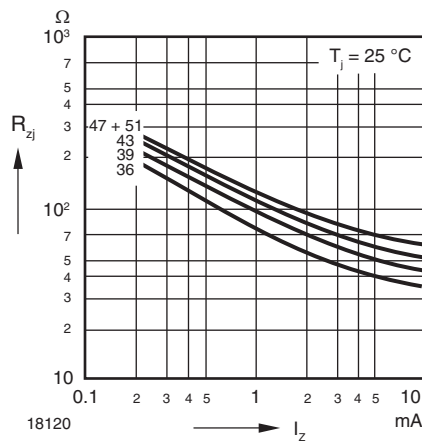


Fig. 5 - Dynamic Resistance vs. Zener Current

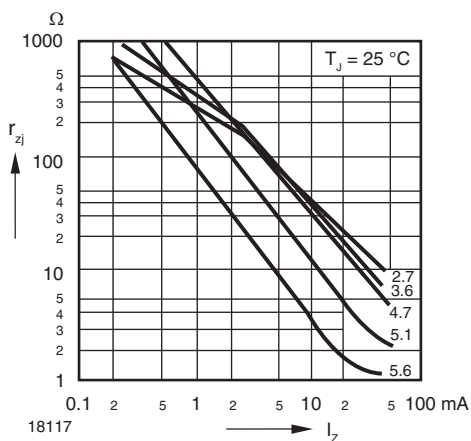


Fig. 3 - Dynamic Resistance vs. Zener Current

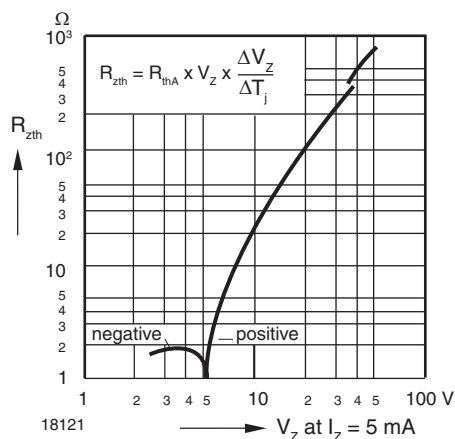


Fig. 6 - Thermal Differential Resistance vs. Zener Voltage

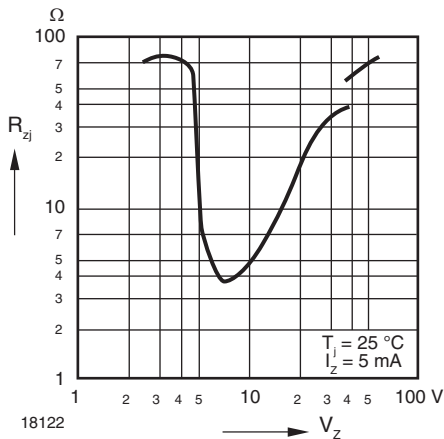


Fig. 7 - Dynamic Resistance vs. Zener Voltage

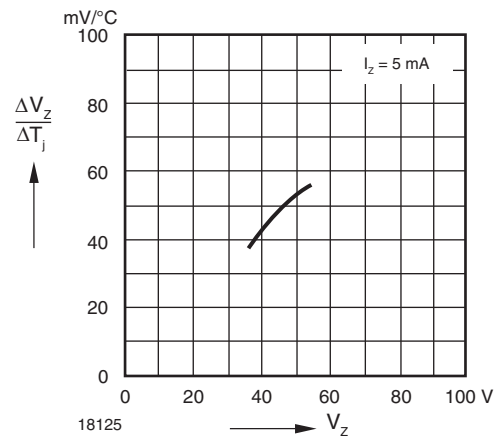


Fig. 10 - Temperature Dependence of Zener Voltage vs. Zener Voltage

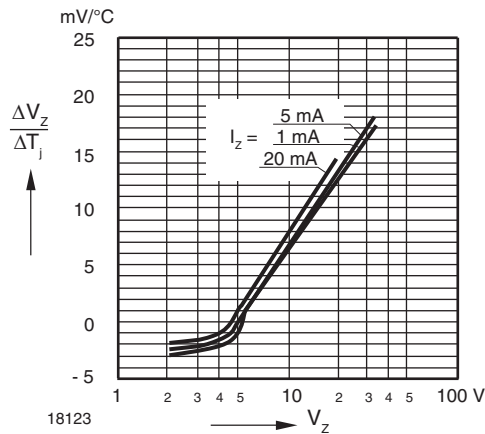


Fig. 8 - Temperature Dependence of Zener Voltage vs. Zener Voltage

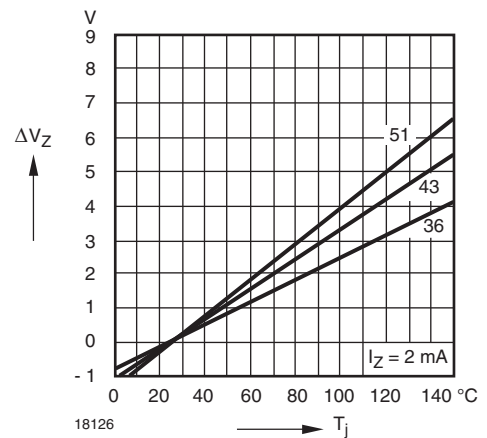


Fig. 11 - Change of Zener Voltage vs. Junction Temperature

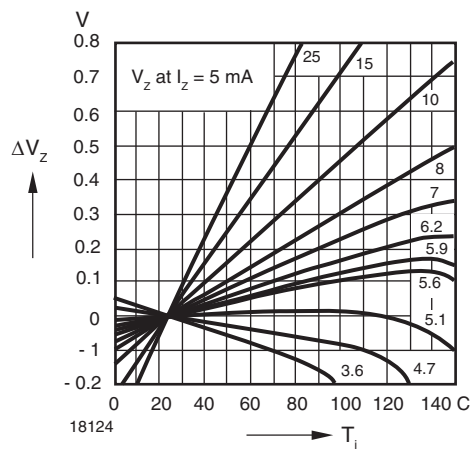


Fig. 9 - Change of Zener Voltage vs. Junction Temperature

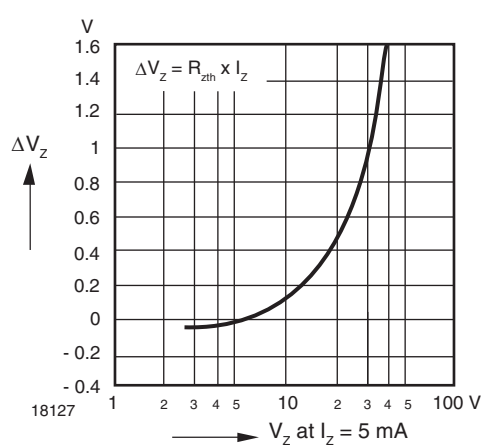


Fig. 12 - Change of Zener Voltage from Turn-on up to the Point of Thermal Equilibrium vs. Zener Voltage

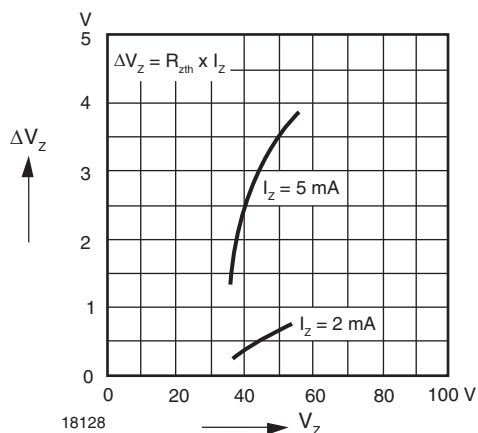


Fig. 13 - Change of Zener Voltage from Turn-on up to the Point of Thermal Equilibrium vs. Zener Voltage

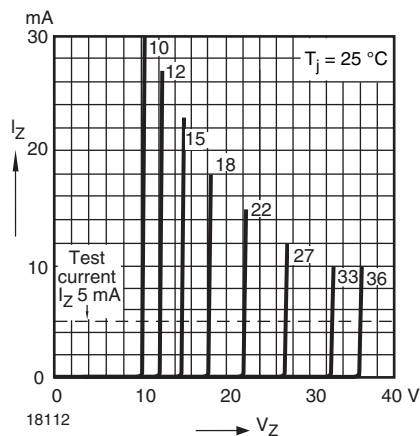


Fig. 15 - Breakdown Characteristics

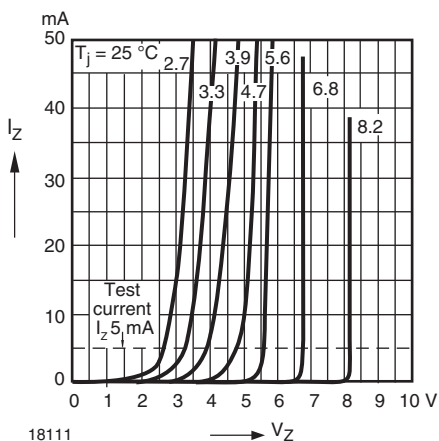


Fig. 14 - Breakdown Characteristics

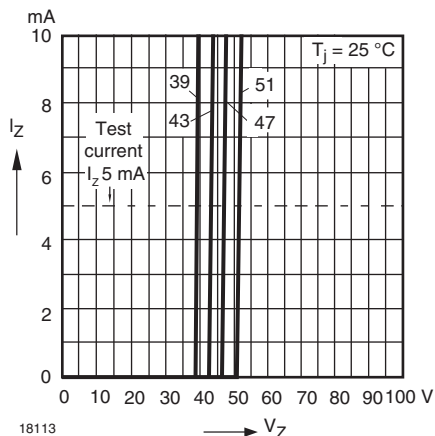


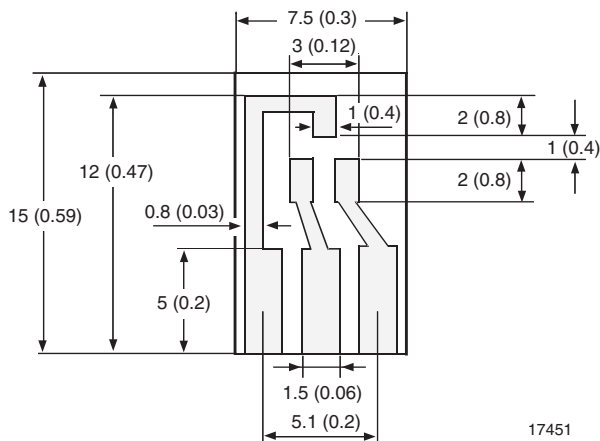
Fig. 16 - Breakdown Characteristics



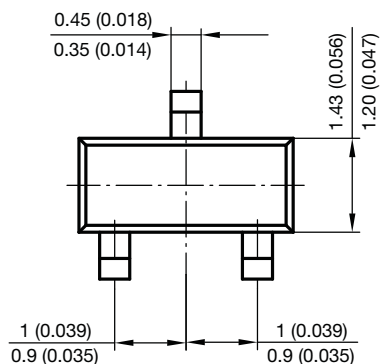
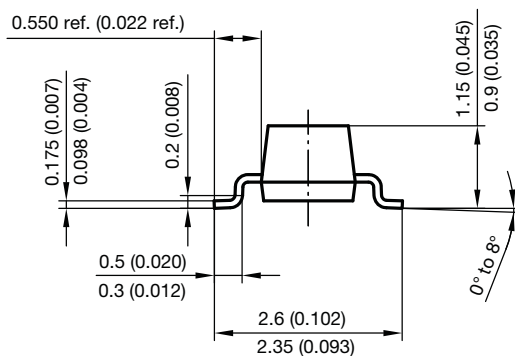
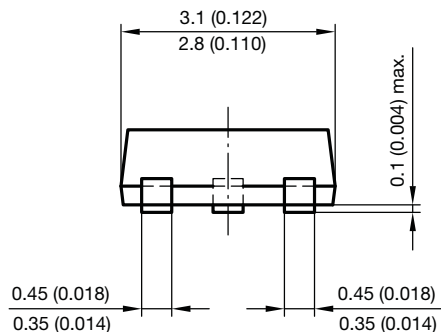
### LAYOUT FOR $R_{thJA}$ TEST

Thickness: fiberglass 0.059" (1.5 mm)

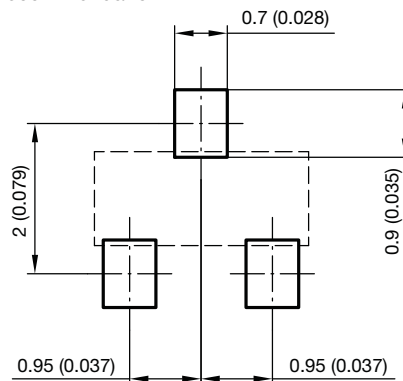
Copper leads 0.012" (0.3 mm)



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



Foot print recommendation:





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**Стандарт  
Электрон  
Связь**

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