

## Small Signal Zener Diodes



### FEATURES

- Very sharp reverse characteristic
- Low reverse current level
- Very high stability
- Low noise
- AEC-Q101 qualified
- Material categorization:  
For definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



**RoHS**  
COMPLIANT  
HALOGEN  
**FREE**

### APPLICATIONS

- Voltage stabilization

### PRIMARY CHARACTERISTICS

| PARAMETER                    | VALUE         | UNIT |
|------------------------------|---------------|------|
| V <sub>Z</sub> range nom.    | 2.4 to 36     | V    |
| Test current I <sub>ZT</sub> | 2; 5          | mA   |
| V <sub>Z</sub> specification | Pulse current |      |
| Int. construction            | Single        |      |

### ORDERING INFORMATION

| DEVICE NAME | ORDERING CODE  | TAPED UNITS PER REEL                | MINIMUM ORDER QUANTITY |
|-------------|----------------|-------------------------------------|------------------------|
| TZX-series  | TZX-series-TAP | 10 000 per ammpack<br>(52 mm tape)  | 30 000/box             |
| TZX-series  | TZX-series-TR  | 10 000 per 14" reel<br>(52 mm tape) | 30 000/box             |

### PACKAGE

| PACKAGE NAME | WEIGHT | MOLDING COMPOUND<br>FLAMMABILITY RATING | MOISTURE SENSITIVITY<br>LEVEL        | SOLDERING CONDITIONS     |
|--------------|--------|-----------------------------------------|--------------------------------------|--------------------------|
| DO-35        | 125 mg | UL 94 V-0                               | MSL level 1<br>(according J-STD-020) | 260 °C/10 s at terminals |

### ABSOLUTE MAXIMUM RATINGS (T<sub>amb</sub> = 25 °C, unless otherwise specified)

| PARAMETER                                  | TEST CONDITION                      | SYMBOL            | VALUE                            | UNIT |
|--------------------------------------------|-------------------------------------|-------------------|----------------------------------|------|
| Power dissipation                          | I = 4 mm, T <sub>L</sub> = 25 °C    | P <sub>tot</sub>  | 500                              | mW   |
| Zener current                              |                                     | I <sub>Z</sub>    | P <sub>tot</sub> /V <sub>Z</sub> | mA   |
| Thermal resistance junction to ambient air | I = 4 mm, T <sub>L</sub> = constant | R <sub>thJA</sub> | 300                              | K/W  |
| Junction temperature                       |                                     | T <sub>j</sub>    | 175                              | °C   |
| Storage temperature range                  |                                     | T <sub>stg</sub>  | - 65 to + 175                    | °C   |
| Forward voltage (max.)                     | I <sub>F</sub> = 200 mA             | V <sub>F</sub>    | 1.5                              | V    |

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

| PART NUMBER | ZENER VOLTAGE RANGE                |      | TEST CURRENT     | REVERSE LEAKAGE CURRENT          |     |                                                 |   | DYNAMIC RESISTANCE                 |
|-------------|------------------------------------|------|------------------|----------------------------------|-----|-------------------------------------------------|---|------------------------------------|
|             | V <sub>Z</sub> at I <sub>ZT1</sub> |      | I <sub>ZT1</sub> | I <sub>R</sub> at V <sub>R</sub> |     | I <sub>R</sub> at V <sub>R</sub> <sup>(1)</sup> |   | Z <sub>Z</sub> at I <sub>ZT1</sub> |
|             | V                                  |      | mA               | μA                               | V   | μA                                              | V | Ω                                  |
|             | MIN.                               | MAX. |                  | MAX.                             |     | MAX.                                            |   | MAX.                               |
| TZX2V4A     | 2.3                                | 2.5  | 5                | 5                                | 0.5 | 50                                              | 1 | 100                                |
| TZX2V4B     | 2.4                                | 2.6  | 5                | 5                                | 0.5 | 50                                              | 1 | 100                                |
| TZX2V7A     | 2.5                                | 2.7  | 5                | 5                                | 0.5 | 10                                              | 1 | 100                                |
| TZX2V7B     | 2.6                                | 2.8  | 5                | 5                                | 0.5 | 10                                              | 1 | 100                                |
| TZX2V7C     | 2.7                                | 2.9  | 5                | 5                                | 0.5 | 10                                              | 1 | 100                                |
| TZX3V0A     | 2.8                                | 3    | 5                | 5                                | 0.5 | 6                                               | 1 | 100                                |
| TZX3V0B     | 2.9                                | 3.1  | 5                | 5                                | 0.5 | 6                                               | 1 | 100                                |
| TZX3V0C     | 3                                  | 3.2  | 5                | 5                                | 0.5 | 6                                               | 1 | 100                                |
| TZX3V3A     | 3.1                                | 3.3  | 5                | 5                                | 1   | 2                                               | 1 | 100                                |
| TZX3V3B     | 3.2                                | 3.4  | 5                | 5                                | 1   | 2                                               | 1 | 100                                |
| TZX3V3C     | 3.3                                | 3.5  | 5                | 5                                | 1   | 2                                               | 1 | 100                                |
| TZX3V6A     | 3.4                                | 3.6  | 5                | 5                                | 1   | 2                                               | 1 | 100                                |
| TZX3V6B     | 3.5                                | 3.7  | 5                | 5                                | 1   | 2                                               | 1 | 100                                |
| TZX3V6C     | 3.6                                | 3.8  | 5                | 5                                | 1   | 2                                               | 1 | 100                                |
| TZX3V9A     | 3.7                                | 3.9  | 5                | 5                                | 1   | 2                                               | 1 | 100                                |
| TZX3V9B     | 3.8                                | 4    | 5                | 5                                | 1   | 2                                               | 1 | 100                                |
| TZX3V9C     | 3.9                                | 4.1  | 5                | 5                                | 1   | 2                                               | 1 | 100                                |
| TZX4V3A     | 4                                  | 4.2  | 5                | 5                                | 1.5 | 1                                               | 1 | 100                                |
| TZX4V3B     | 4.1                                | 4.3  | 5                | 5                                | 1.5 | 1                                               | 1 | 100                                |
| TZX4V3C     | 4.2                                | 4.4  | 5                | 5                                | 1.5 | 1                                               | 1 | 100                                |
| TZX4V3D     | 4.3                                | 4.5  | 5                | 5                                | 1.5 | 1                                               | 1 | 100                                |
| TZX4V7A     | 4.4                                | 4.6  | 5                | 5                                | 2   | 6                                               | 2 | 100                                |
| TZX4V7B     | 4.5                                | 4.7  | 5                | 5                                | 2   | 5                                               | 2 | 100                                |
| TZX4V7C     | 4.6                                | 4.8  | 5                | 5                                | 2   | 4                                               | 2 | 100                                |
| TZX4V7D     | 4.7                                | 4.9  | 5                | 5                                | 2   | 3                                               | 2 | 100                                |
| TZX5V1A     | 4.8                                | 5    | 5                | 5                                | 2   | 2                                               | 2 | 100                                |
| TZX5V1B     | 4.9                                | 5.1  | 5                | 5                                | 2   | 2                                               | 2 | 100                                |
| TZX5V1C     | 5                                  | 5.2  | 5                | 5                                | 2   | 2                                               | 2 | 100                                |
| TZX5V1D     | 5.1                                | 5.3  | 5                | 5                                | 2   | 2                                               | 2 | 100                                |
| TZX5V6A     | 5.2                                | 5.5  | 5                | 5                                | 2   | 1                                               | 2 | 40                                 |
| TZX5V6B     | 5.3                                | 5.6  | 5                | 5                                | 2   | 1                                               | 2 | 40                                 |
| TZX5V6C     | 5.4                                | 5.7  | 5                | 5                                | 2   | 1                                               | 2 | 40                                 |
| TZX5V6D     | 5.5                                | 5.8  | 5                | 5                                | 2   | 1                                               | 2 | 40                                 |
| TZX5V6E     | 5.6                                | 5.9  | 5                | 5                                | 2   | 1                                               | 2 | 40                                 |
| TZX6V2A     | 5.7                                | 6    | 5                | 1                                | 3   | 3                                               | 4 | 15                                 |
| TZX6V2B     | 5.8                                | 6.1  | 5                | 1                                | 3   | 3                                               | 4 | 15                                 |
| TZX6V2C     | 6                                  | 6.3  | 5                | 1                                | 3   | 3                                               | 4 | 15                                 |
| TZX6V2D     | 6.1                                | 6.4  | 5                | 1                                | 3   | 3                                               | 4 | 15                                 |
| TZX6V2E     | 6.3                                | 6.6  | 5                | 1                                | 3   | 3                                               | 4 | 15                                 |
| TZX6V8A     | 6.4                                | 6.7  | 5                | 1                                | 3.5 | 2                                               | 4 | 15                                 |
| TZX6V8B     | 6.6                                | 6.9  | 5                | 1                                | 3.5 | 2                                               | 4 | 15                                 |
| TZX6V8C     | 6.7                                | 7    | 5                | 1                                | 3.5 | 2                                               | 4 | 15                                 |
| TZX6V8D     | 6.9                                | 7.2  | 5                | 1                                | 3.5 | 2                                               | 4 | 15                                 |

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

| PART NUMBER | ZENER VOLTAGE RANGE                |       | TEST CURRENT | REVERSE LEAKAGE CURRENT          |      |                                                 |      | DYNAMIC RESISTANCE |
|-------------|------------------------------------|-------|--------------|----------------------------------|------|-------------------------------------------------|------|--------------------|
|             | V <sub>Z</sub> at I <sub>ZT1</sub> |       |              | I <sub>R</sub> at V <sub>R</sub> |      | I <sub>R</sub> at V <sub>R</sub> <sup>(1)</sup> |      |                    |
|             | V                                  |       | mA           | μA                               | V    | μA                                              | V    | Ω                  |
|             | MIN.                               | MAX.  |              | MAX.                             |      | MAX.                                            |      | MAX.               |
| TZX7V5A     | 7                                  | 7.3   | 5            | 1                                | 5    | 30                                              | 6.65 | 15                 |
| TZX7V5B     | 7.2                                | 7.6   | 5            | 1                                | 5    | 30                                              | 6.84 | 15                 |
| TZX7V5C     | 7.3                                | 7.7   | 5            | 1                                | 5    | 30                                              | 6.94 | 15                 |
| TZX7V5D     | 7.5                                | 7.9   | 5            | 1                                | 5    | 30                                              | 7.13 | 15                 |
| TZX7V5X     | 7.07                               | 7.45  | 5            | 1                                | 5    | 30                                              | 6.72 | 15                 |
| TZX8V2A     | 7.7                                | 8.1   | 5            | 1                                | 6.2  | 0.1                                             | 7.32 | 20                 |
| TZX8V2B     | 7.9                                | 8.3   | 5            | 1                                | 6.2  | 0.1                                             | 7.5  | 20                 |
| TZX8V2C     | 8.1                                | 8.5   | 5            | 1                                | 6.2  | 0.1                                             | 7.7  | 20                 |
| TZX8V2D     | 8.3                                | 8.7   | 5            | 1                                | 6.2  | 0.1                                             | 7.98 | 20                 |
| TZX9V1A     | 8.5                                | 8.9   | 5            | 1                                | 6.8  | 0.04                                            | 8.08 | 20                 |
| TZX9V1B     | 8.7                                | 9.1   | 5            | 1                                | 6.8  | 0.04                                            | 8.27 | 20                 |
| TZX9V1C     | 8.9                                | 9.3   | 5            | 1                                | 6.8  | 0.04                                            | 8.46 | 20                 |
| TZX9V1D     | 9.1                                | 9.5   | 5            | 1                                | 6.8  | 0.04                                            | 8.65 | 20                 |
| TZX9V1E     | 9.3                                | 9.7   | 5            | 1                                | 6.8  | 0.04                                            | 8.84 | 20                 |
| TZX10A      | 9.5                                | 9.9   | 5            | 1                                | 7.5  | 0.04                                            | 9.03 | 25                 |
| TZX10B      | 9.7                                | 10.1  | 5            | 1                                | 7.5  | 0.04                                            | 9.22 | 25                 |
| TZX10C      | 9.9                                | 10.3  | 5            | 1                                | 7.5  | 0.04                                            | 9.41 | 25                 |
| TZX10D      | 10.2                               | 10.6  | 5            | 1                                | 7.5  | 0.04                                            | 9.69 | 25                 |
| TZX11A      | 10.4                               | 10.8  | 5            | 1                                | 8.2  | 0.04                                            | 9.88 | 25                 |
| TZX11B      | 10.7                               | 11.1  | 5            | 1                                | 8.2  | 0.04                                            | 10.2 | 25                 |
| TZX11C      | 10.9                               | 11.3  | 5            | 1                                | 8.2  | 0.04                                            | 10.4 | 25                 |
| TZX11D      | 11.1                               | 11.6  | 5            | 1                                | 8.2  | 0.04                                            | 10.5 | 25                 |
| TZX12A      | 11.4                               | 11.9  | 5            | 1                                | 9.5  | 0.04                                            | 10.8 | 35                 |
| TZX12B      | 11.6                               | 12.1  | 5            | 1                                | 9.5  | 0.04                                            | 11   | 35                 |
| TZX12C      | 11.9                               | 12.4  | 5            | 1                                | 9.5  | 0.04                                            | 11.3 | 35                 |
| TZX12D      | 12.2                               | 12.7  | 5            | 1                                | 9.5  | 0.04                                            | 11.6 | 35                 |
| TZX12X      | 11.44                              | 12.03 | 5            | 1                                | 9.5  | 0.04                                            | 10.9 | 35                 |
| TZX13A      | 12.4                               | 12.9  | 5            | 1                                | 10   | 0.04                                            | 11.8 | 35                 |
| TZX13B      | 12.6                               | 13.1  | 5            | 1                                | 10   | 0.04                                            | 12   | 35                 |
| TZX13C      | 12.9                               | 13.4  | 5            | 1                                | 10   | 0.04                                            | 12.3 | 35                 |
| TZX14A      | 13.2                               | 13.7  | 5            | 1                                | 11   | 0.04                                            | 12.5 | 35                 |
| TZX14B      | 13.5                               | 14    | 5            | 1                                | 11   | 0.04                                            | 12.8 | 35                 |
| TZX14C      | 13.8                               | 14.3  | 5            | 1                                | 11   | 0.04                                            | 13.1 | 35                 |
| TZX15A      | 14.1                               | 14.7  | 5            | 1                                | 11.5 | 0.04                                            | 13.4 | 40                 |
| TZX15B      | 14.5                               | 15.1  | 5            | 1                                | 11.5 | 0.04                                            | 13.8 | 40                 |
| TZX15C      | 14.9                               | 15.5  | 5            | 1                                | 11.5 | 0.04                                            | 14.2 | 40                 |
| TZX15X      | 14.35                              | 15.09 | 5            | 1                                | 11.5 | 0.04                                            | 13.6 | 40                 |
| TZX16A      | 15.3                               | 15.9  | 5            | 1                                | 12   | 0.04                                            | 14.5 | 45                 |
| TZX16B      | 15.7                               | 16.5  | 5            | 1                                | 12   | 0.04                                            | 14.9 | 45                 |
| TZX16C      | 16.3                               | 17.1  | 5            | 1                                | 12   | 0.04                                            | 15.5 | 45                 |
| TZX18A      | 16.9                               | 17.7  | 5            | 1                                | 13   | 0.04                                            | 16.1 | 55                 |
| TZX18B      | 17.5                               | 18.3  | 5            | 1                                | 13   | 0.04                                            | 16.6 | 55                 |
| TZX18C      | 18.1                               | 19    | 5            | 1                                | 13   | 0.04                                            | 17.2 | 55                 |
| TZX20A      | 18.8                               | 19.7  | 2            | 1                                | 15   | 0.04                                            | 17.9 | 60                 |
| TZX20B      | 19.5                               | 20.4  | 2            | 1                                | 15   | 0.04                                            | 18.5 | 60                 |
| TZX20C      | 20.2                               | 21.2  | 2            | 1                                | 15   | 0.04                                            | 19.2 | 60                 |
| TZX22A      | 20.9                               | 21.9  | 2            | 1                                | 17   | 0.04                                            | 19.9 | 65                 |

| <b>ELECTRICAL CHARACTERISTICS</b> ( $T_{amb} = 25\text{ }^{\circ}\text{C}$ , unless otherwise specified) |                     |       |              |                         |    |                      |      |                    |
|----------------------------------------------------------------------------------------------------------|---------------------|-------|--------------|-------------------------|----|----------------------|------|--------------------|
| PART NUMBER                                                                                              | ZENER VOLTAGE RANGE |       | TEST CURRENT | REVERSE LEAKAGE CURRENT |    |                      |      | DYNAMIC RESISTANCE |
|                                                                                                          | $V_Z$ at $I_{ZT1}$  |       | $I_{ZT1}$    | $I_R$ at $V_R$          |    | $I_R$ at $V_R^{(1)}$ |      | $Z_Z$ at $I_{ZT1}$ |
|                                                                                                          | V                   |       | mA           | $\mu\text{A}$           | V  | $\mu\text{A}$        | V    | $\Omega$           |
|                                                                                                          | MIN.                | MAX.  |              | MAX.                    |    | MAX.                 |      | MAX.               |
| TZX22B                                                                                                   | 21.6                | 22.6  | 2            | 1                       | 17 | 0.04                 | 20.5 | 65                 |
| TZX22C                                                                                                   | 22.3                | 23.3  | 2            | 1                       | 17 | 0.04                 | 21.2 | 65                 |
| TZX24A                                                                                                   | 22.9                | 24    | 2            | 1                       | 19 | 0.04                 | 21.8 | 70                 |
| TZX24B                                                                                                   | 23.6                | 24.7  | 2            | 1                       | 19 | 0.04                 | 22.4 | 70                 |
| TZX24C                                                                                                   | 24.3                | 25.5  | 2            | 1                       | 19 | 0.04                 | 23.1 | 70                 |
| TZX24X                                                                                                   | 22.61               | 23.77 | 2            | 1                       | 19 | 0.04                 | 21.5 | 70                 |
| TZX27A                                                                                                   | 25.2                | 26.6  | 2            | 1                       | 21 | 0.04                 | 23.9 | 80                 |
| TZX27B                                                                                                   | 26.2                | 27.6  | 2            | 1                       | 21 | 0.04                 | 24.9 | 80                 |
| TZX27C                                                                                                   | 27.2                | 28.6  | 2            | 1                       | 21 | 0.04                 | 25.8 | 80                 |
| TZX27X                                                                                                   | 26.99               | 28.39 | 2            | 1                       | 21 | 0.04                 | 25.6 | 80                 |
| TZX30A                                                                                                   | 28.2                | 29.6  | 2            | 1                       | 23 | 0.04                 | 26.8 | 100                |
| TZX30B                                                                                                   | 29.2                | 30.6  | 2            | 1                       | 23 | 0.04                 | 27.7 | 100                |
| TZX30C                                                                                                   | 30.2                | 31.6  | 2            | 1                       | 23 | 0.04                 | 28.7 | 100                |
| TZX30X                                                                                                   | 29.02               | 30.51 | 2            | 1                       | 23 | 0.04                 | 27.6 | 100                |
| TZX33A                                                                                                   | 31.2                | 32.6  | 2            | 1                       | 25 | 0.04                 | 29.6 | 120                |
| TZX33B                                                                                                   | 32.2                | 33.6  | 2            | 1                       | 25 | 0.04                 | 30.6 | 120                |
| TZX33C                                                                                                   | 33.2                | 34.5  | 2            | 1                       | 25 | 0.04                 | 31.5 | 120                |
| TZX36A                                                                                                   | 34.2                | 35.7  | 2            | 1                       | 27 | 0.04                 | 32.5 | 140                |
| TZX36B                                                                                                   | 35.3                | 36.8  | 2            | 1                       | 27 | 0.04                 | 33.5 | 140                |
| TZX36C                                                                                                   | 36.4                | 38    | 2            | 1                       | 27 | 0.04                 | 34.6 | 140                |
| TZX36X                                                                                                   | 35.36               | 37.19 | 2            | 1                       | 27 | 0.04                 | 33.6 | 140                |

**Notes**

- Additional measurement of voltage group TZX9V1 to TZX36,  $I_R$  at 95 %  $V_{Zmin.} \leq 40\text{ nA}$  at  $T_j = 25\text{ }^{\circ}\text{C}$

<sup>(1)</sup> Additional measurement

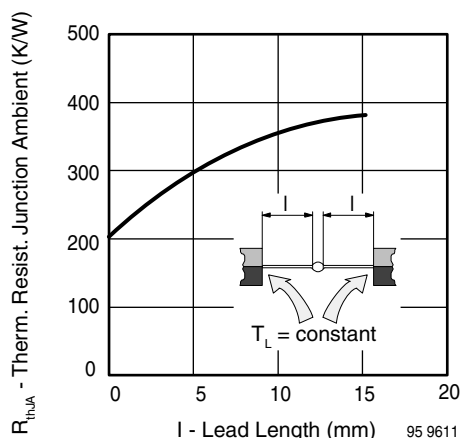
**BASIC CHARACTERISTICS** ( $T_{amb} = 25\text{ }^{\circ}\text{C}$ , unless otherwise specified)


Fig. 1 - Thermal Resistance vs. Lead Length

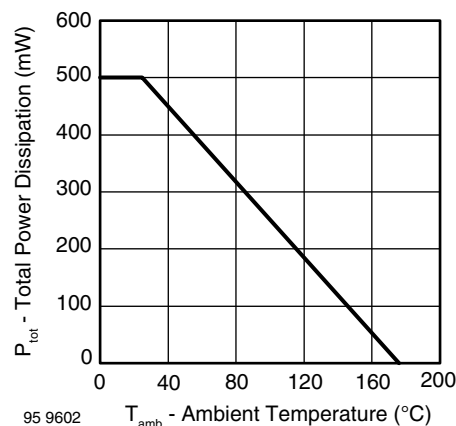


Fig. 2 - Total Power Dissipation vs. Ambient Temperature

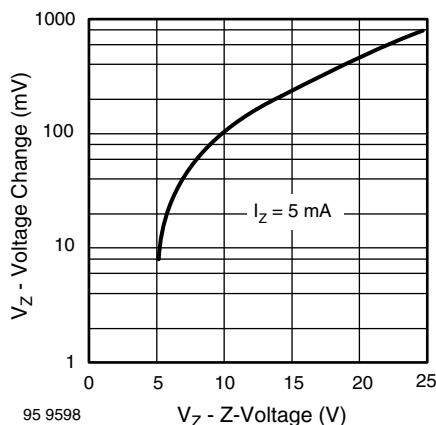


Fig. 3 - Typical Change of Working Voltage under Operating Conditions at  $T_{\text{amb}} = 25^\circ\text{C}$

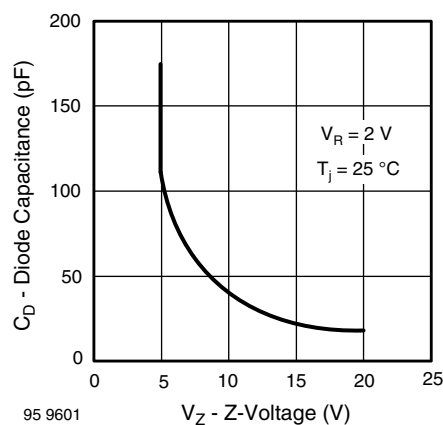


Fig. 6 - Diode Capacitance vs. Z-Voltage

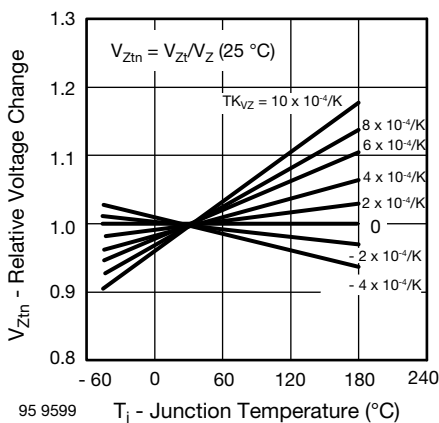


Fig. 4 - Typical Change of Working Voltage vs. Junction Temperature

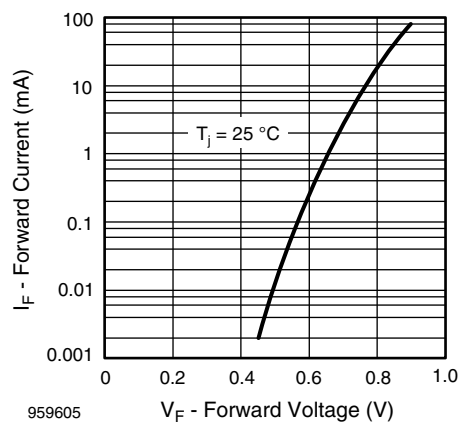


Fig. 7 - Forward Current vs. Forward Voltage

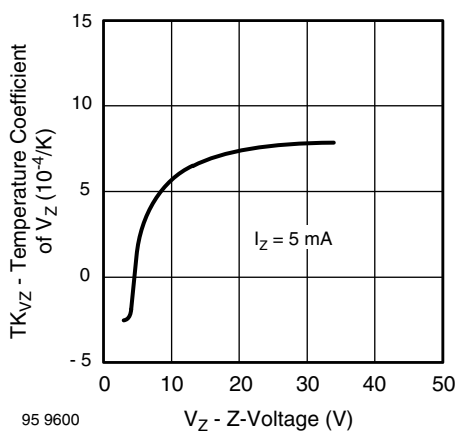


Fig. 5 - Temperature Coefficient of  $V_Z$  vs. Z-Voltage

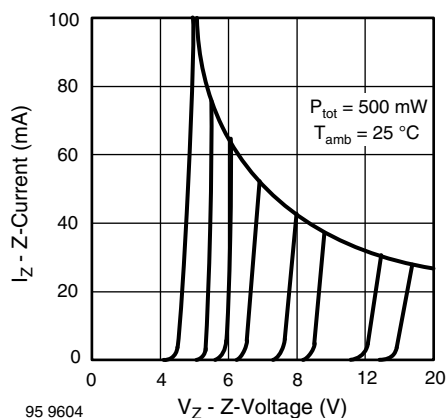


Fig. 8 - Z-Current vs. Z-Voltage

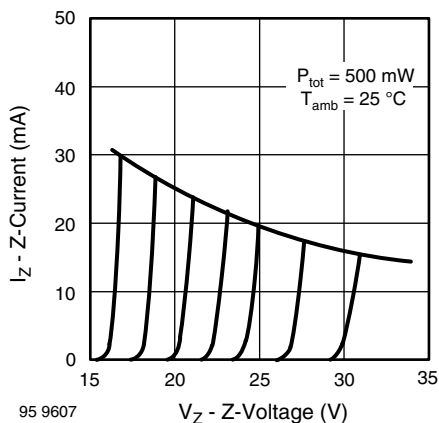


Fig. 9 - Z-Current vs. Z-Voltage

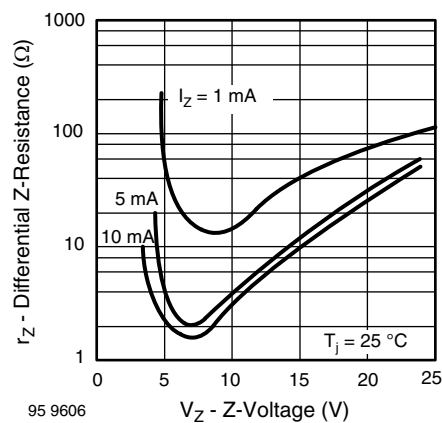


Fig. 10 - Differential Z-Resistance vs. Z-Voltage

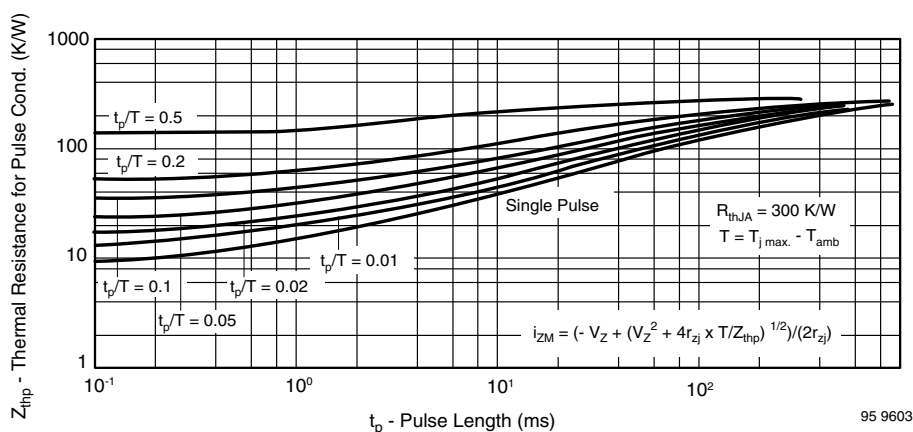
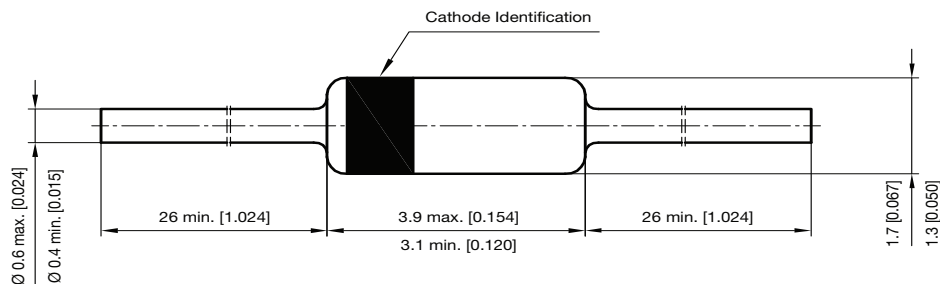


Fig. 11 - Thermal Response

## PACKAGE DIMENSIONS in millimeters (inches): DO-35



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94 9366



## Disclaimer

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## Material Category Policy

**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.**

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Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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