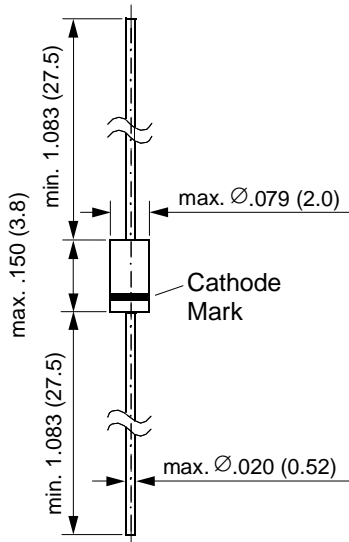


DO-204AH (DO-35 Glass)



Dimensions are in inches and (millimeters)

Features

- Silicon Stabilizer Diodes
- Monolithic integrated analog circuits designed for small power stabilizer and limitation circuits, providing low dynamic resistance and high-quality stabilization performance as well as low noise. In the reverse direction, these devices show the behavior of forward-biased silicon diodes.
- The end of the ZTE device marked with the cathode ring is to be connected: ZTE1.5 and ZTE2 to the negative pole of the supply voltage; ZTE2.4 to the positive pole of the supply voltage
- These diodes are also available in MiniMELF case with the type designation LL1.5 ... LL 2.4.

Mechanical Data

Case: DO-35 Glass Case

Weight: approx. 0.13g

Packaging codes/options:

D7/10K per 13" reel (52mm tape), 20K/box

D8/10K per Ammo tape, (52mm tape), 20K/box

Maximum Ratings (T_A = 25°C unless otherwise noted)

| Parameter | Symbol | Value | Unit |
|---|------------------|--------------------|------|
| Operating Current (see Table "Characteristics") | | | |
| Inverse Current | I _F | 100 | mA |
| Power dissipation at T _{amb} = 25°C | P _{tot} | 300 ⁽¹⁾ | mW |
| Junction temperature | T _J | 150 | °C |
| Storage temperature range | T _S | -55 to +150 | °C |

Electrical and Thermal Characteristics (T_A = 25°C unless otherwise noted)

| Parameter | Symbol | Min. | Typ. | Max. | Unit |
|--|------------------|-----------------|------|--------------------|----------------------|
| Forward Voltage at I _F = 10 mA | V _F | - | - | 1.1 | V |
| Temperature Coefficient of the stabilized voltage at I _Z = 5 mA | ZTE1.5, ZTE2 | α _{VZ} | - | -26 | 10 ⁻⁴ /°C |
| | ZTE2.4 | α _{VZ} | - | -34 | 10 ⁻⁴ /°C |
| Thermal resistance junction to ambient air | R _{θJA} | - | - | 0.4 ⁽¹⁾ | °C/W |

| Type | Operating Voltage at I _Z = 5mA ⁽²⁾ V _Z (V) | Dynamic resistance at I _Z = 5mA r _{Zj} (Ω) | Permissible operating current at T _{amb} = 25°C ⁽¹⁾ I _Z max. (mA) |
|--------|--|---|---|
| ZTE1.5 | 1.35 ... 1.55 | 13(<20) | 120 |
| ZTE2 | 2.0 ... 2.3 | 18(<30) | 120 |
| ZTE2.4 | 2.2 ... 2.56 | 14(<20) | 120 |

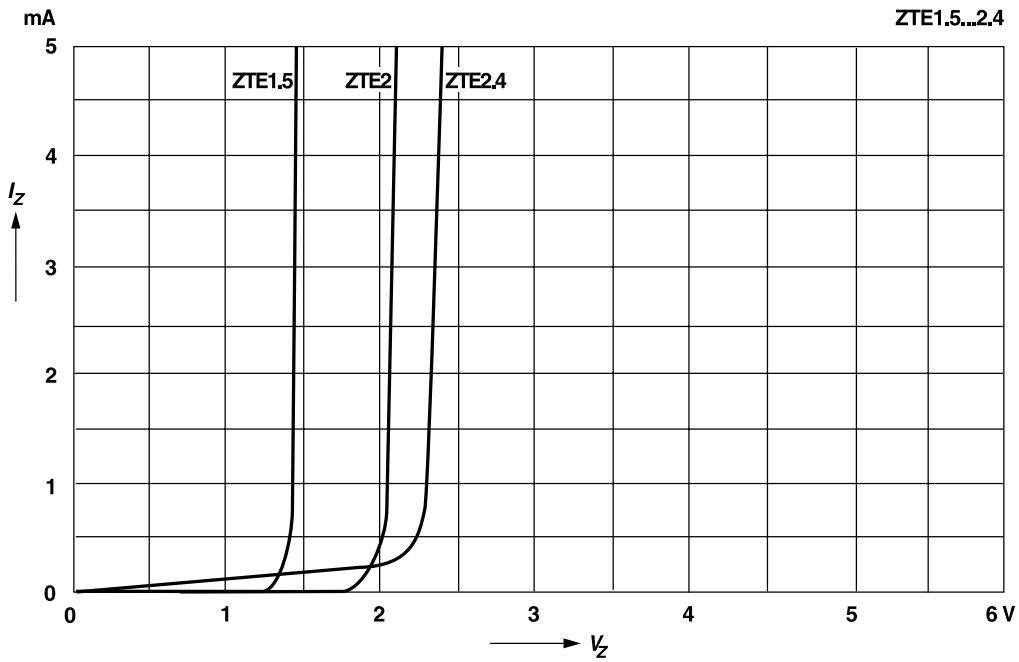
Notes: (1) Valid provided that electrodes are kept at ambient temperature at a distance of 8mm from case

(2) Tested with pulses t_p = 5ms

Ratings and Characteristic Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

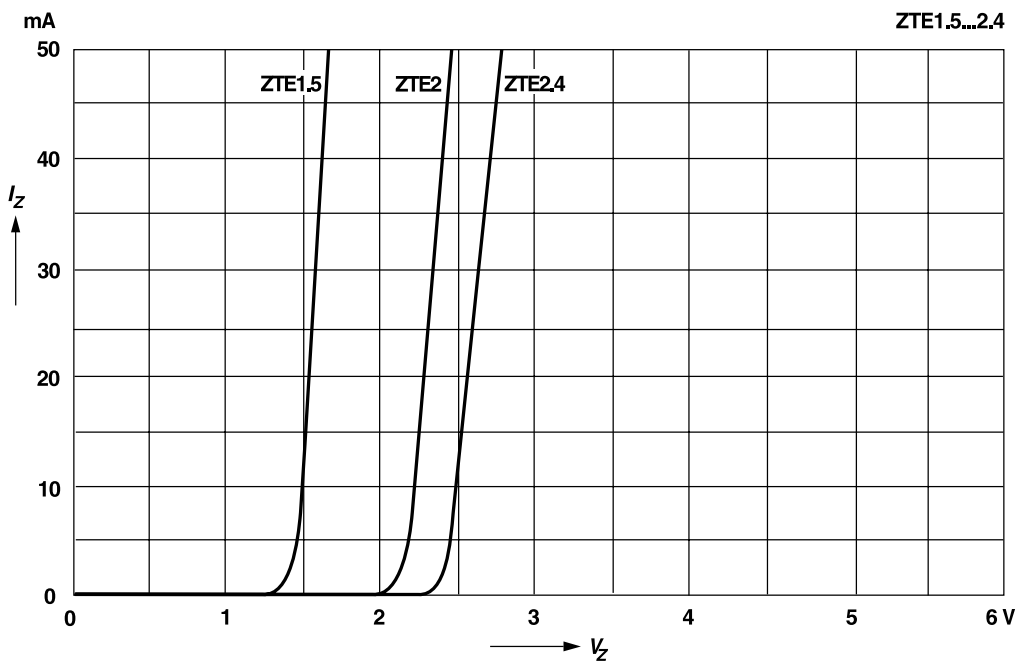
Breakdown characteristics

$T_j = \text{constant (pulsed)}$



Breakdown characteristics

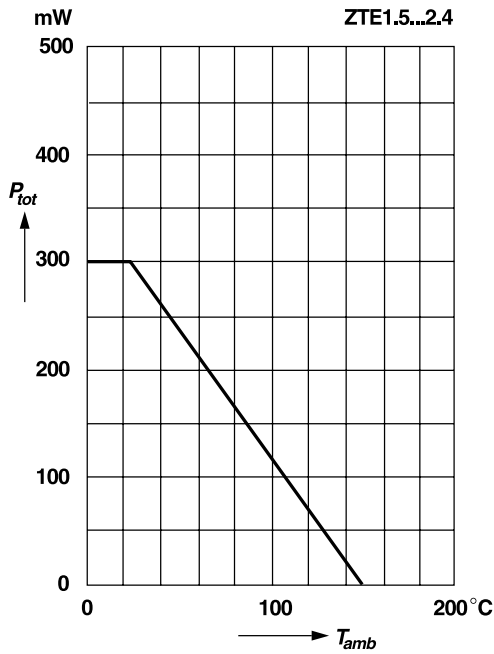
$T_j = \text{constant (pulsed)}$



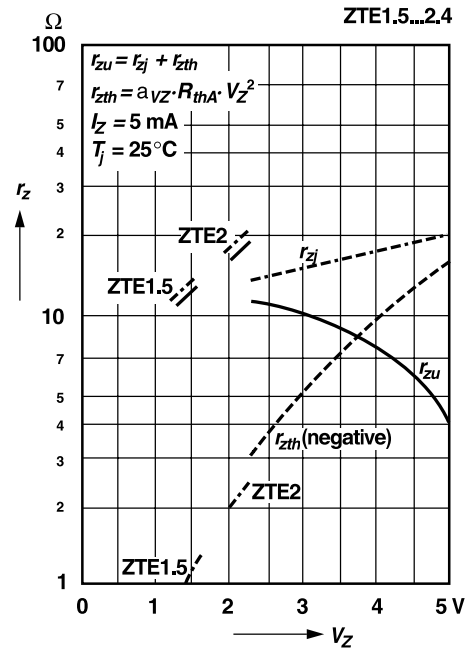
Ratings and Characteristic Curves (T_A = 25°C unless otherwise noted)

Admissible power dissipation versus ambient temperature

Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature



Dynamic resistance versus operating voltage



Dynamic resistance versus operating current, normalized

