



# BZX55 Series

Zener Diodes

Zener Voltage Range: 0.8, 2.4 to 200 Volts Power Dissipation: 500mW

## Features

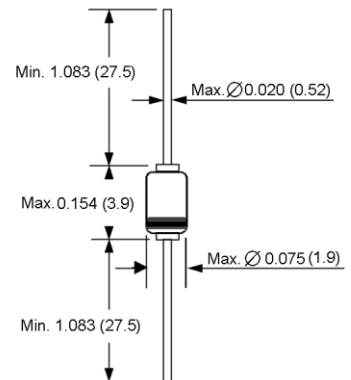
- ◆ Silicon Planar Power Zener Diodes.
- ◆ The Zener voltages are graded according to the international E 24 standard. Standard Zener voltage tolerance is  $\pm 5\%$ . Replace suffix "C" with "B" for  $\pm 2\%$  tolerance. Other voltage tolerances and other Zener voltages are available upon request.



DO-204AH (DO-35 Glass)

## Mechanical Data

- ◆ Case: DO-35 Glass Case
- ◆ Weight: approx. 0.13g



Dimensions in inches and (millimeters)

## Maximum Ratings and Thermal Characteristics

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

| Parameter                                                | Symbol                | Value              | Unit               |
|----------------------------------------------------------|-----------------------|--------------------|--------------------|
| Zener current (see Table "Characteristics")              |                       |                    |                    |
| Power dissipation at $T_{\text{amb}} = 25^\circ\text{C}$ | $P_{\text{tot}}$      | 500 <sup>(1)</sup> | mW                 |
| Thermal resistance junction to ambient air               | $R_{\theta\text{JA}}$ | 300 <sup>(1)</sup> | $^\circ\text{C/W}$ |
| Junction temperature                                     | $T_j$                 | 175                | $^\circ\text{C}$   |
| Storage temperature range                                | $T_s$                 | -55 to +175        | $^\circ\text{C}$   |

**Notes:** 1. Valid provided that leads at a distance of 3/8" from case are kept at ambient temperature.

Electrical Characteristics

(T<sub>A</sub> =25°C unless otherwise noted) Maximum V<sub>F</sub>=1.0V at I<sub>F</sub>=100mA

| Type<br>number<br>y=C for +5%<br>y=B for +2% | Dynamic resistance                                     |                                                        | Temp. coefficient of zener<br>voltage at I <sub>Z</sub> =5mA<br>α <sub>VZ</sub> (% / °C) |        | Reverse leakage current                             |                                                      |                                 | Admissible<br>zener<br>current <sup>(2)</sup><br>I <sub>ZM</sub> (mA) |
|----------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------|--------|-----------------------------------------------------|------------------------------------------------------|---------------------------------|-----------------------------------------------------------------------|
|                                              | at I <sub>Z</sub> =5mA<br>f=1kHz<br>r <sub>d</sub> (Ω) | at I <sub>Z</sub> =1mA<br>f=1kHz<br>r <sub>d</sub> (Ω) | Min.                                                                                     | Max.   | at<br>T <sub>amb</sub> =25°C<br>I <sub>R</sub> (nA) | at<br>T <sub>amb</sub> =150°C<br>I <sub>R</sub> (uA) | at<br>V <sub>R</sub><br>(Volts) |                                                                       |
|                                              |                                                        |                                                        |                                                                                          |        |                                                     |                                                      |                                 |                                                                       |
| BZX55 - y0V8 <sup>(3)</sup>                  | < 8                                                    | < 600                                                  | - 0.25                                                                                   | -      | -                                                   | -                                                    | -                               | -                                                                     |
| BZX55 - y2V4                                 | < 85                                                   | < 600                                                  | - 0.08                                                                                   | - 0.06 | < 50000                                             | < 100                                                | 1                               | 145                                                                   |
| BZX55 - y2V7                                 | < 85                                                   | < 600                                                  | - 0.08                                                                                   | - 0.06 | < 10000                                             | < 50                                                 | 1                               | 135                                                                   |
| BZX55 - y3V0                                 | < 85                                                   | < 600                                                  | - 0.08                                                                                   | - 0.06 | < 4000                                              | < 40                                                 | 1                               | 125                                                                   |
| BZX55 - y3V3                                 | < 85                                                   | < 600                                                  | - 0.08                                                                                   | - 0.05 | < 2000                                              | < 40                                                 | 1                               | 115                                                                   |
| BZX55 - y3V6                                 | < 85                                                   | < 600                                                  | - 0.08                                                                                   | - 0.04 | < 2000                                              | < 40                                                 | 1                               | 105                                                                   |
| BZX55 - y3V9                                 | < 85                                                   | < 600                                                  | - 0.07                                                                                   | - 0.03 | < 2000                                              | < 40                                                 | 1                               | 95                                                                    |
| BZX55 - y4V3                                 | < 75                                                   | < 600                                                  | - 0.04                                                                                   | - 0.01 | < 1000                                              | < 20                                                 | 1                               | 90                                                                    |
| BZX55 - y4V7                                 | < 60                                                   | < 600                                                  | - 0.03                                                                                   | + 0.01 | < 500                                               | < 10                                                 | 1                               | 85                                                                    |
| BZX55 - y5V1                                 | < 35                                                   | < 550                                                  | - 0.02                                                                                   | + 0.05 | < 100                                               | < 2                                                  | 1                               | 80                                                                    |
| BZX55 - y5V6                                 | < 25                                                   | < 450                                                  | - 0.01                                                                                   | + 0.06 | < 100                                               | < 2                                                  | 1                               | 70                                                                    |
| BZX55 - y6V2                                 | < 10                                                   | < 200                                                  | 0                                                                                        | + 0.07 | < 100                                               | < 2                                                  | 2                               | 64                                                                    |
| BZX55 - y6V8                                 | < 8                                                    | < 150                                                  | + 0.01                                                                                   | + 0.08 | < 100                                               | < 2                                                  | 3                               | 58                                                                    |
| BZX55 - y7V5                                 | < 7                                                    | < 50                                                   | + 0.01                                                                                   | + 0.09 | < 100                                               | < 2                                                  | 5                               | 53                                                                    |
| BZX55 - y8V2                                 | < 7                                                    | < 50                                                   | + 0.01                                                                                   | + 0.09 | < 100                                               | < 2                                                  | 6.2                             | 47                                                                    |
| BZX55 - y9V1                                 | < 10                                                   | < 50                                                   | + 0.02                                                                                   | + 0.10 | < 100                                               | < 2                                                  | 6.8                             | 43                                                                    |
| BZX55 - y10                                  | < 15                                                   | < 70                                                   | + 0.03                                                                                   | + 0.11 | < 100                                               | < 2                                                  | 7.5                             | 40                                                                    |
| BZX55 - y11                                  | < 20                                                   | < 70                                                   | + 0.03                                                                                   | + 0.11 | < 100                                               | < 2                                                  | 8.2                             | 36                                                                    |
| BZX55 - y12                                  | < 20                                                   | < 90                                                   | + 0.03                                                                                   | + 0.11 | < 100                                               | < 2                                                  | 9.1                             | 32                                                                    |
| BZX55 - y13                                  | < 26                                                   | < 110                                                  | + 0.03                                                                                   | + 0.11 | < 100                                               | < 2                                                  | 10                              | 29                                                                    |
| BZX55 - y15                                  | < 30                                                   | < 110                                                  | + 0.03                                                                                   | + 0.11 | < 100                                               | < 2                                                  | 11                              | 27                                                                    |
| BZX55 - y16                                  | < 40                                                   | < 170                                                  | + 0.03                                                                                   | + 0.11 | < 100                                               | < 2                                                  | 12                              | 24                                                                    |
| BZX55 - y18                                  | < 50                                                   | < 170                                                  | + 0.03                                                                                   | + 0.11 | < 100                                               | < 2                                                  | 13                              | 21                                                                    |
| BZX55 - y20                                  | < 55                                                   | < 220                                                  | + 0.03                                                                                   | + 0.11 | < 100                                               | < 2                                                  | 15                              | 20                                                                    |
| BZX55 - y22                                  | < 55                                                   | < 220                                                  | + 0.03                                                                                   | + 0.11 | < 100                                               | < 2                                                  | 16                              | 18                                                                    |
| BZX55 - y24                                  | < 80                                                   | < 220                                                  | + 0.04                                                                                   | + 0.12 | < 100                                               | < 2                                                  | 18                              | 16                                                                    |
| BZX55 - y27                                  | < 80                                                   | < 220                                                  | + 0.04                                                                                   | + 0.12 | < 100                                               | < 2                                                  | 20                              | 14                                                                    |
| BZX55 - y30                                  | < 80                                                   | < 220                                                  | + 0.04                                                                                   | + 0.12 | < 100                                               | < 2                                                  | 22                              | 13                                                                    |
| BZX55 - y33                                  | < 80                                                   | < 220                                                  | + 0.04                                                                                   | + 0.12 | < 100                                               | < 2                                                  | 24                              | 12                                                                    |
| BZX55 - y36                                  | < 80                                                   | < 220                                                  | + 0.04                                                                                   | + 0.12 | < 100                                               | < 2                                                  | 27                              | 11                                                                    |
| BZX55 - y39                                  | < 90 <sup>(4)</sup>                                    | < 500 <sup>(5)</sup>                                   | + 0.04                                                                                   | + 0.12 | < 100                                               | < 5                                                  | 30                              | 10                                                                    |
| BZX55 - y43                                  | < 90 <sup>(4)</sup>                                    | < 600 <sup>(5)</sup>                                   | + 0.04                                                                                   | + 0.12 | < 100                                               | < 5                                                  | 33                              | 9.2                                                                   |
| BZX55 - y47                                  | < 110 <sup>(4)</sup>                                   | < 700 <sup>(5)</sup>                                   | + 0.04                                                                                   | + 0.12 | < 100                                               | < 5                                                  | 36                              | 8.5                                                                   |
| BZX55 - y51                                  | < 125 <sup>(4)</sup>                                   | < 700 <sup>(5)</sup>                                   | + 0.04                                                                                   | + 0.12 | < 100                                               | < 10                                                 | 39                              | 7.8                                                                   |
| BZX55 - y56                                  | < 135 <sup>(4)</sup>                                   | < 1000 <sup>(5)</sup>                                  | typ. +0.1 <sup>(4)</sup>                                                                 |        | < 100                                               | < 10                                                 | 43                              | 7.0                                                                   |
| BZX55 - y62                                  | < 150 <sup>(4)</sup>                                   | < 1000 <sup>(5)</sup>                                  | typ. +0.1 <sup>(4)</sup>                                                                 |        | < 100                                               | < 10                                                 | 47                              | 6.4                                                                   |
| BZX55 - y68                                  | < 200 <sup>(4)</sup>                                   | < 1000 <sup>(5)</sup>                                  | typ. +0.1 <sup>(4)</sup>                                                                 |        | < 100                                               | < 10                                                 | 51                              | 5.9                                                                   |
| BZX55 - y75                                  | < 250 <sup>(4)</sup>                                   | < 1500 <sup>(5)</sup>                                  | typ. +0.1 <sup>(4)</sup>                                                                 |        | < 100                                               | < 10                                                 | 56                              | 5.3                                                                   |
| BZX55 - y82                                  | < 300 <sup>(4)</sup>                                   | < 2000 <sup>(5)</sup>                                  | typ. +0.1 <sup>(4)</sup>                                                                 |        | < 100                                               | < 10                                                 | 62                              | 4.8                                                                   |
| BZX55 - y91                                  | < 450 <sup>(6)</sup>                                   | < 5000 <sup>(7)</sup>                                  | typ. +0.1 <sup>(4)</sup>                                                                 |        | < 100                                               | < 10                                                 | 68                              | 4.4                                                                   |
| BZX55 - y100                                 | < 450 <sup>(6)</sup>                                   | < 5000 <sup>(7)</sup>                                  | typ. +0.1 <sup>(4)</sup>                                                                 |        | < 100                                               | < 10                                                 | 75                              | 4.0                                                                   |
| BZX55 - y110                                 | < 600                                                  | < 5000                                                 | typ. +0.1 <sup>(4)</sup>                                                                 |        | < 100                                               | < 10                                                 | 82                              | -                                                                     |
| BZX55 - y120                                 | < 800                                                  | < 5500                                                 | typ. +0.1 <sup>(4)</sup>                                                                 |        | < 100                                               | < 10                                                 | 91                              | -                                                                     |
| BZX55 - y130                                 | < 950                                                  | < 6000                                                 | typ. +0.1 <sup>(4)</sup>                                                                 |        | < 100                                               | < 10                                                 | 100                             | -                                                                     |
| BZX55 - y150                                 | < 1250                                                 | < 6500                                                 | typ. +0.1 <sup>(4)</sup>                                                                 |        | < 100                                               | < 10                                                 | 110                             | -                                                                     |
| BZX55 - y160                                 | < 1400                                                 | < 7000                                                 | typ. +0.1 <sup>(4)</sup>                                                                 |        | < 100                                               | < 10                                                 | 120                             | -                                                                     |
| BZX55 - y180                                 | < 1700                                                 | < 8500                                                 | typ. +0.1 <sup>(4)</sup>                                                                 |        | < 100                                               | < 10                                                 | 130                             | -                                                                     |
| BZX55 - y200                                 | < 2000                                                 | < 10000                                                | typ. +0.1 <sup>(4)</sup>                                                                 |        | < 100                                               | < 10                                                 | 150                             | -                                                                     |

- Notes:
1. Tested with pulses t<sub>p</sub>=5 ms

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

3. The BZX55 - COV8 is a silicon diode with operation in forward direction. Hence, the index of all parameters should be "F" instead of "Z". Connect the cathode lead to the negative pole.

4. at I<sub>Z</sub>=2.5 mA

5. at I<sub>Z</sub>=0.5 mA

6. at I<sub>Z</sub>=1.0 mA

7. at I<sub>Z</sub>=0.1 mA

Electrical Characteristics

(T<sub>A</sub> =25°C unless otherwise noted) Maximum V<sub>F</sub>=1.0V at I<sub>F</sub>=100mA

| Type number<br>±5% Tol.   | Zener voltage range <sup>(1)</sup> at I <sub>ZT1</sub> (mA)<br>V <sub>Z</sub> (Volts) |      | Test current<br>I <sub>ZT1</sub> (mA) |
|---------------------------|---------------------------------------------------------------------------------------|------|---------------------------------------|
|                           | Min.                                                                                  | Max. |                                       |
| BZX55-C0V8 <sup>(3)</sup> | 0.73                                                                                  | 0.83 | 5.0                                   |
| BZX55-C2V4                | 2.28                                                                                  | 2.56 | 5.0                                   |
| BZX55-C2V7                | 2.50                                                                                  | 2.90 | 5.0                                   |
| BZX55-C3V0                | 2.80                                                                                  | 3.20 | 5.0                                   |
| BZX55-C3V3                | 3.10                                                                                  | 3.50 | 5.0                                   |
| BZX55-C3V6                | 3.40                                                                                  | 3.90 | 5.0                                   |
| BZX55-C3V9                | 3.70                                                                                  | 4.10 | 5.0                                   |
| BZX55-C4V3                | 4.00                                                                                  | 4.60 | 5.0                                   |
| BZX55-C4V7                | 4.40                                                                                  | 5.00 | 5.0                                   |
| BZX55-C5V1                | 4.80                                                                                  | 5.40 | 5.0                                   |
| BZX55-C5V6                | 5.20                                                                                  | 6.00 | 5.0                                   |
| BZX55-C6V2                | 5.80                                                                                  | 6.60 | 5.0                                   |
| BZX55-C6V8                | 6.40                                                                                  | 7.20 | 5.0                                   |
| BZX55-C7V5                | 7.00                                                                                  | 7.90 | 5.0                                   |
| BZX55-C8V2                | 7.70                                                                                  | 8.70 | 5.0                                   |
| BZX55-C9V1                | 8.50                                                                                  | 9.60 | 5.0                                   |
| BZX55-C10                 | 9.40                                                                                  | 10.6 | 5.0                                   |
| BZX55-C11                 | 10.4                                                                                  | 11.6 | 5.0                                   |
| BZX55-C12                 | 11.4                                                                                  | 12.7 | 5.0                                   |
| BZX55-C13                 | 12.4                                                                                  | 14.1 | 5.0                                   |
| BZX55-C15                 | 13.8                                                                                  | 15.6 | 5.0                                   |
| BZX55-C16                 | 15.3                                                                                  | 17.1 | 5.0                                   |
| BZX55-C18                 | 16.8                                                                                  | 19.1 | 5.0                                   |
| BZX55-C20                 | 18.8                                                                                  | 21.2 | 5.0                                   |
| BZX55-C22                 | 20.8                                                                                  | 23.3 | 5.0                                   |
| BZX55-C24                 | 22.8                                                                                  | 25.6 | 5.0                                   |
| BZX55-C27                 | 25.1                                                                                  | 28.9 | 5.0                                   |
| BZX55-C30                 | 28.0                                                                                  | 32.0 | 5.0                                   |
| BZX55-C33                 | 31.0                                                                                  | 35.0 | 5.0                                   |
| BZX55-C36                 | 34.0                                                                                  | 38.0 | 5.0                                   |
| BZX55-C39                 | 37.0                                                                                  | 41.0 | 2.5                                   |
| BZX55-C43                 | 40.0                                                                                  | 46.0 | 2.5                                   |
| BZX55-C47                 | 44.0                                                                                  | 50.0 | 2.5                                   |
| BZX55-C51                 | 48.0                                                                                  | 54.0 | 2.5                                   |
| BZX55-C56                 | 52.0                                                                                  | 60.0 | 2.5                                   |
| BZX55-C62                 | 58.0                                                                                  | 66.0 | 2.5                                   |
| BZX55-C68                 | 64.0                                                                                  | 72.0 | 2.5                                   |
| BZX55-C75                 | 70.0                                                                                  | 80.0 | 2.5                                   |
| BZX55-C82                 | 77.0                                                                                  | 87.0 | 2.5                                   |
| BZX55-C91                 | 85.0                                                                                  | 96.0 | 1.0                                   |
| BZX55-C100                | 94.0                                                                                  | 106  | 1.0                                   |
| BZX55-C110                | 104                                                                                   | 116  | 1.0                                   |
| BZX55-C120                | 114                                                                                   | 127  | 1.0                                   |
| BZX55-C130                | 124                                                                                   | 141  | 1.0                                   |
| BZX55-C150                | 138                                                                                   | 156  | 1.0                                   |
| BZX55-C160                | 153                                                                                   | 171  | 1.0                                   |
| BZX55-C180                | 168                                                                                   | 191  | 1.0                                   |
| BZX55-C200                | 188                                                                                   | 212  | 1.0                                   |

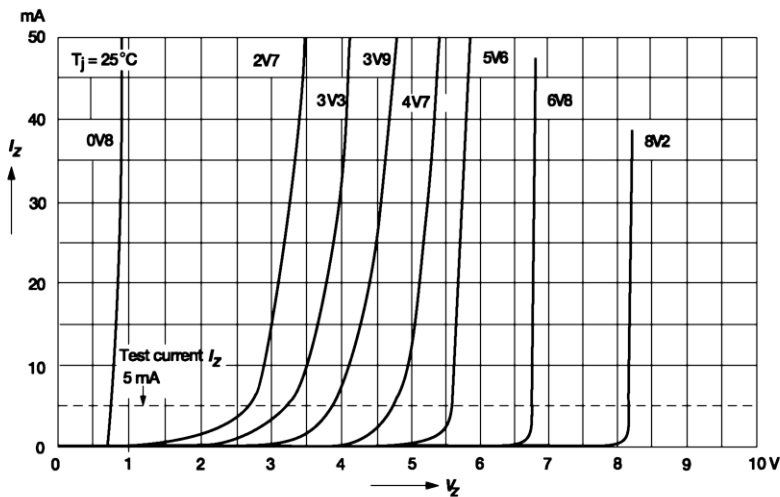
| Type number<br>±2% Tol.   | Zener voltage range <sup>(1)</sup> at I <sub>ZT1</sub> (mA)<br>V <sub>Z</sub> (Volts) |      | Test current<br>I <sub>ZT1</sub> (mA) |
|---------------------------|---------------------------------------------------------------------------------------|------|---------------------------------------|
|                           | Min.                                                                                  | Max. |                                       |
| BZX55-B0V8 <sup>(3)</sup> | 0.78                                                                                  | 0.82 | 5.0                                   |
| BZX55-B2V7                | 2.35                                                                                  | 2.45 | 5.0                                   |
| BZX55-B3                  | 2.65                                                                                  | 2.75 | 5.0                                   |
| BZX55-B3V0                | 2.94                                                                                  | 3.06 | 5.0                                   |
| BZX55-B3V3                | 3.23                                                                                  | 3.37 | 5.0                                   |
| BZX55-B3V6                | 3.53                                                                                  | 3.67 | 5.0                                   |
| BZX55-B3V9                | 3.82                                                                                  | 3.98 | 5.0                                   |
| BZX55-B4V3                | 4.21                                                                                  | 4.39 | 5.0                                   |
| BZX55-B4V7                | 4.61                                                                                  | 4.79 | 5.0                                   |
| BZX55-B5V1                | 5.00                                                                                  | 5.20 | 5.0                                   |
| BZX55-B5V6                | 5.49                                                                                  | 5.71 | 5.0                                   |
| BZX55-B6V2                | 6.08                                                                                  | 6.32 | 5.0                                   |
| BZX55-B6V8                | 6.66                                                                                  | 6.94 | 5.0                                   |
| BZX55-B7V5                | 7.35                                                                                  | 7.65 | 5.0                                   |
| BZX55-B8V2                | 8.04                                                                                  | 8.36 | 5.0                                   |
| BZX55-B9V1                | 8.92                                                                                  | 9.28 | 5.0                                   |
| BZX55-B10                 | 9.80                                                                                  | 10.2 | 5.0                                   |
| BZX55-B11                 | 10.8                                                                                  | 11.2 | 5.0                                   |
| BZX55-B12                 | 11.8                                                                                  | 12.2 | 5.0                                   |
| BZX55-B13                 | 12.7                                                                                  | 13.3 | 5.0                                   |
| BZX55-B15                 | 14.7                                                                                  | 15.3 | 5.0                                   |
| BZX55-B16                 | 15.7                                                                                  | 16.3 | 5.0                                   |
| BZX55-B18                 | 17.6                                                                                  | 18.4 | 5.0                                   |
| BZX55-B20                 | 19.6                                                                                  | 20.4 | 5.0                                   |
| BZX55-B22                 | 21.6                                                                                  | 22.4 | 5.0                                   |
| BZX55-B24                 | 23.5                                                                                  | 24.5 | 5.0                                   |
| BZX55-B27                 | 26.5                                                                                  | 27.5 | 5.0                                   |
| BZX55-B30                 | 29.4                                                                                  | 30.6 | 5.0                                   |
| BZX55-B33                 | 32.3                                                                                  | 33.7 | 5.0                                   |
| BZX55-B36                 | 35.3                                                                                  | 36.7 | 5.0                                   |
| BZX55-B39                 | 38.2                                                                                  | 39.8 | 2.5                                   |
| BZX55-B43                 | 42.1                                                                                  | 43.9 | 2.5                                   |
| BZX55-B47                 | 46.1                                                                                  | 47.9 | 2.5                                   |
| BZX55-B51                 | 50.0                                                                                  | 52.0 | 2.5                                   |
| BZX55-B56                 | 54.9                                                                                  | 56.9 | 2.5                                   |
| BZX55-B62                 | 60.8                                                                                  | 63.2 | 2.5                                   |
| BZX55-B68                 | 66.6                                                                                  | 69.4 | 2.5                                   |
| BZX55-B75                 | 73.5                                                                                  | 76.5 | 2.5                                   |
| BZX55-B82                 | 80.4                                                                                  | 83.6 | 2.5                                   |
| BZX55-B91                 | 89.2                                                                                  | 92.8 | 1.0                                   |
| BZX55-B100                | 98.0                                                                                  | 102  | 1.0                                   |
| BZX55-B110                | 108                                                                                   | 112  | 1.0                                   |
| BZX55-B120                | 118                                                                                   | 122  | 1.0                                   |
| BZX55-B130                | 127                                                                                   | 133  | 1.0                                   |
| BZX55-B150                | 147                                                                                   | 153  | 1.0                                   |
| BZX55-B160                | 157                                                                                   | 163  | 1.0                                   |
| BZX55-B180                | 176                                                                                   | 184  | 1.0                                   |
| BZX55-B200                | 196                                                                                   | 204  | 1.0                                   |

- Notes:
- 1. Measured with pulses t<sub>p</sub>=5 ms
  - 2. The BZX55 - C0V8 is a silicon diode with operation in forward direction. Hence, the index of all parameters should be "F" instead of "Z". Connect the cathode lead to the negative pole.

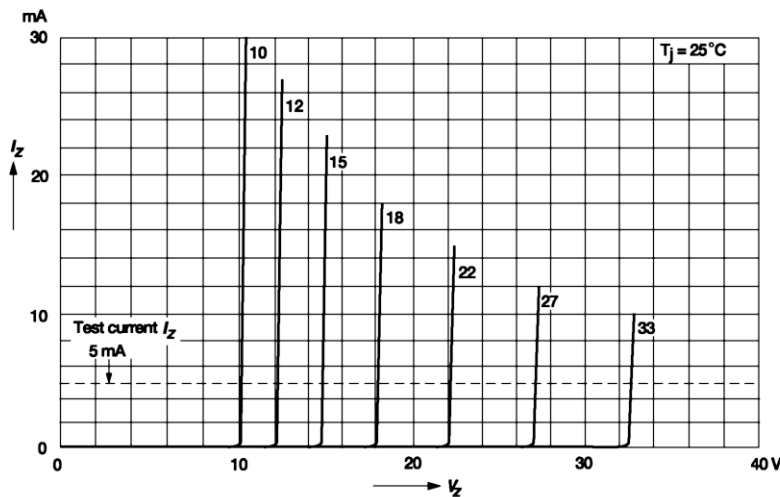
RATINGS AND CHARACTERISTIC CURVES

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

Breakdown characteristics  
at  $T_j = \text{constant (pulsed)}$



Breakdown characteristics  
at  $T_j = \text{constant (pulsed)}$

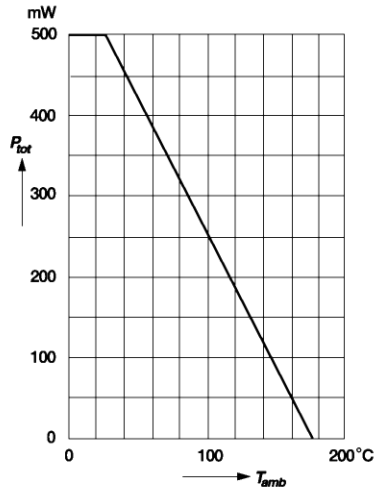


## RATINGS AND CHARACTERISTIC CURVES

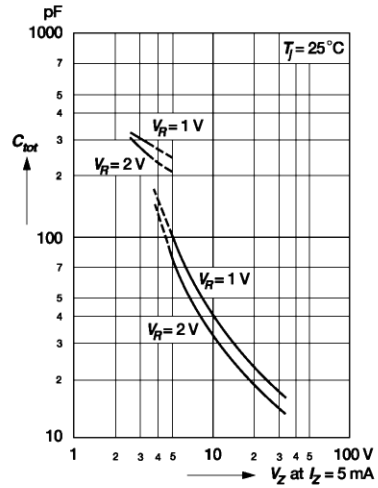
( $T_A = 25^\circ\text{C}$  unless otherwise noted)

### Admissible power dissipation versus ambient temperature

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

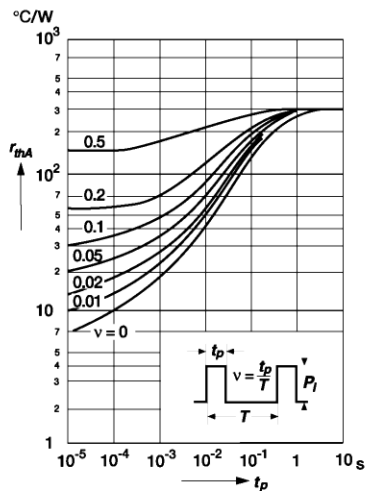


### Capacitance versus Zener voltage

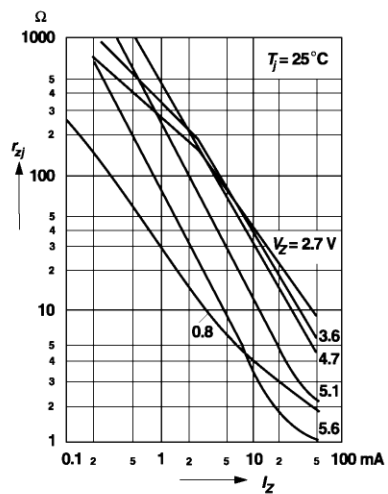


### Pulse thermal resistance versus pulse duration

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



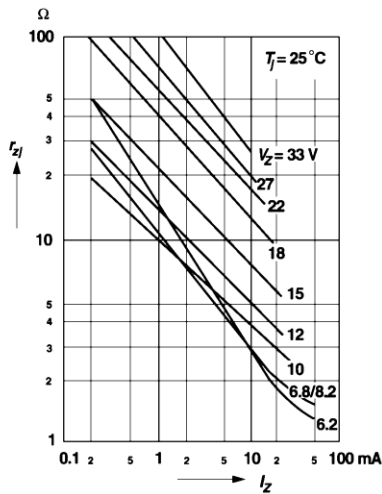
### Dynamic resistance versus Zener current



RATINGS AND CHARACTERISTIC CURVES

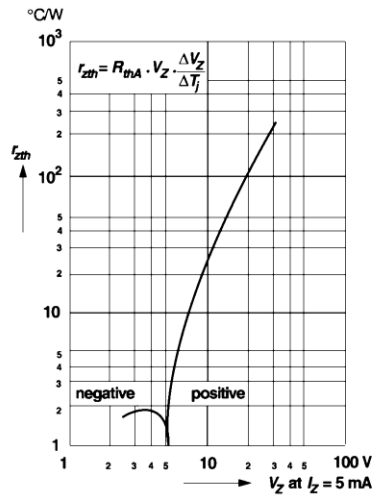
( $T_A = 25^{\circ}\text{C}$  unless otherwise noted)

Dynamic resistance  
versus Zener current

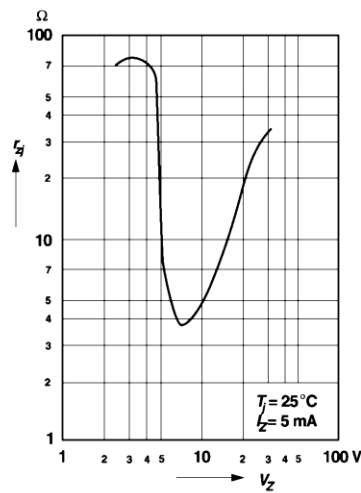


Thermal differential resistance  
versus Zener voltage

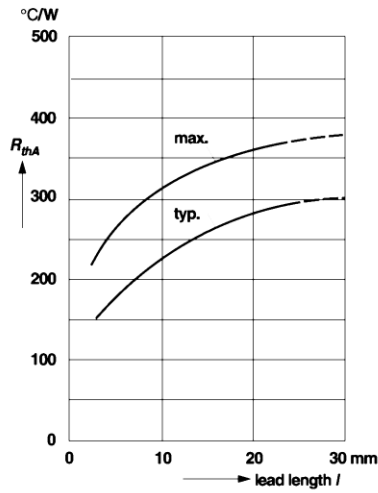
Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.



Dynamic resistance  
versus Zener voltage



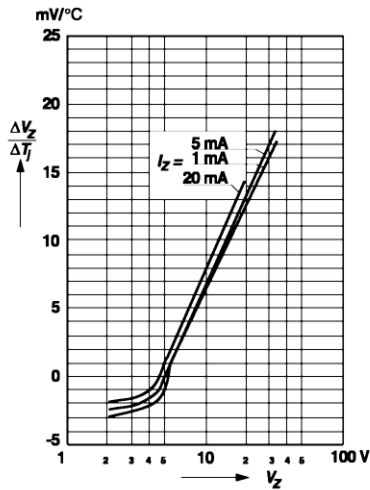
Thermal resistance  
versus lead length



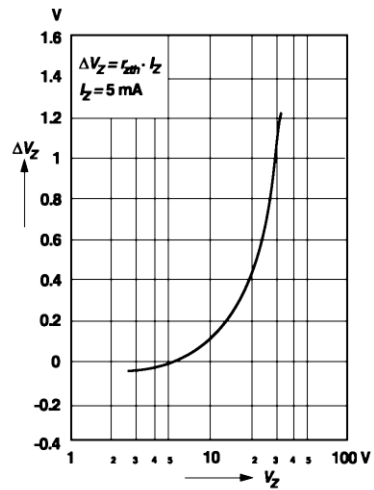
## RATINGS AND CHARACTERISTIC CURVES

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

**Temperature dependence of Zener voltage versus Zener voltage**



**Change of Zener voltage from turn-on up to the point of thermal equilibrium versus Zener voltage**



**Change of Zener voltage versus junction temperature**

