

**Characteristics**

( $T_j = 25^\circ\text{C}$  unless otherwise specified)

**Kennwerte**

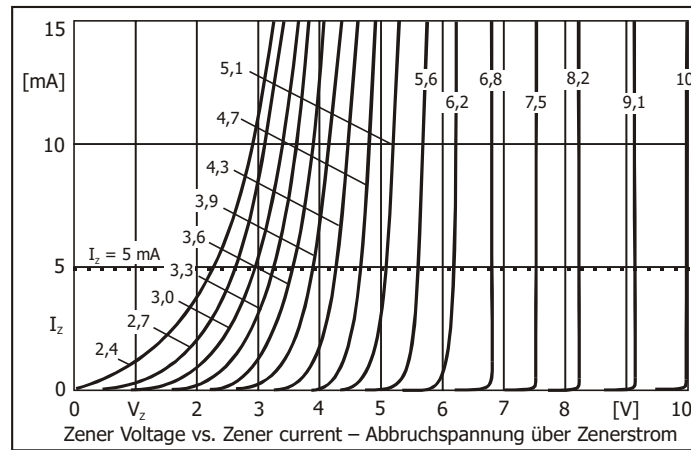
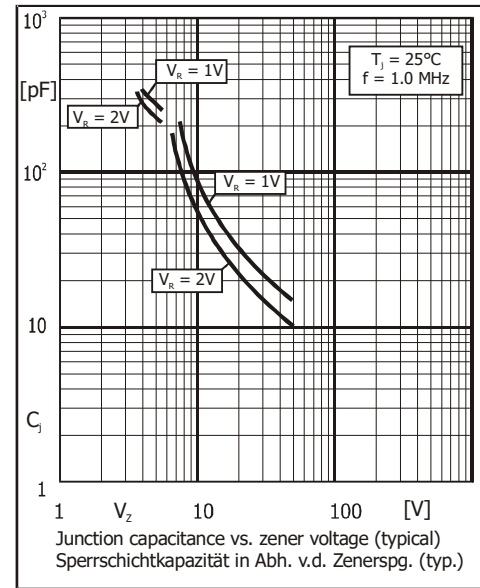
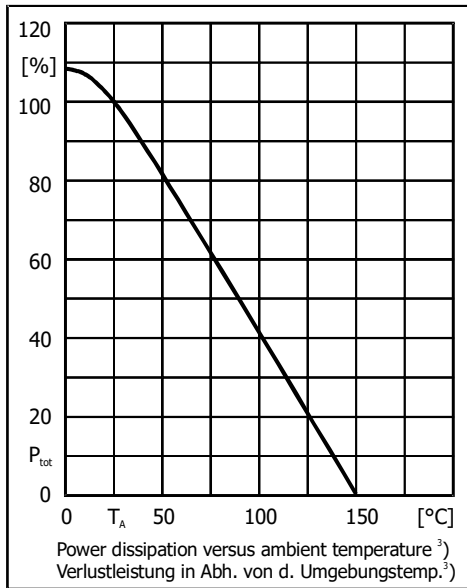
( $T_j = 25^\circ\text{C}$  wenn nicht anders angegeben)

| Type<br>Typ        | Code | Z-voltage range <sup>1)</sup><br>Z-Spannungs-Bereich <sup>1)</sup><br>$I_Z = 5 \text{ mA}$ |                         | Dynamic resistance<br>Diff. Widerstand<br>$r_{zj} [\Omega]$ at $f = 1 \text{ kHz}$ | Temp. Coefficient<br>of Z-voltage<br>...der Z-Spannung | Reverse voltage<br>Sperrspannung<br>$V_R$ at/bei $I_R$ |                     | Z-current <sup>2,3)</sup><br>Z-Strom <sup>2,3)</sup><br>$T_A = 25^\circ\text{C}$ |
|--------------------|------|--------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|---------------------|----------------------------------------------------------------------------------|
| <b>BZX84...</b>    |      | $V_{Z \min} [\text{V}]$                                                                    | $V_{Z \max} [\text{V}]$ | $I_Z = 5 \text{ mA}$                                                               | $\alpha_{VZ} [10^{-4} / ^\circ\text{C}]$               | $V_R [\text{V}]$                                       | $I_R [\mu\text{A}]$ | $I_{Z \max} [\text{mA}]$                                                         |
| ...B2V4/-Q         | CR   | 2.35                                                                                       | 2.45                    | < 85                                                                               | -8...-5                                                | 1                                                      | 20                  | 122                                                                              |
| ...B2V7/-Q         | CX   | 2.65                                                                                       | 2.75                    | < 85                                                                               | -8...-5                                                | 1                                                      | 20                  | 109                                                                              |
| ...B3V0            | CY   | 2.94                                                                                       | 3.06                    | < 85                                                                               | -8...-5                                                | 1                                                      | 10                  | 98                                                                               |
| ...B3V3/-AQ        | CZ   | 3.23                                                                                       | 3.37                    | < 85                                                                               | -8...-5                                                | 1                                                      | 5                   | 89                                                                               |
| ...B3V6            | DA   | 3.53                                                                                       | 3.67                    | < 85                                                                               | -8...-5                                                | 1                                                      | 5                   | 82                                                                               |
| ...B3V9            | DB   | 3.82                                                                                       | 3.98                    | < 85                                                                               | -8...-5                                                | 1                                                      | 3                   | 75                                                                               |
| ...B4V3            | DC   | 4.21                                                                                       | 4.39                    | < 80                                                                               | -7...-4                                                | 1                                                      | 3                   | 68                                                                               |
| ...B4V7/-AQ        | DD   | 4.61                                                                                       | 4.79                    | < 80                                                                               | -5...-2                                                | 2                                                      | 3                   | 63                                                                               |
| ...B5V1/-Q         | DE   | 5.00                                                                                       | 5.20                    | < 60                                                                               | -2...+2                                                | 2                                                      | 2                   | 58                                                                               |
| ...B5V6/<br>-Q/-AQ | DF   | 5.49                                                                                       | 5.71                    | < 40                                                                               | -1...+4                                                | 2                                                      | 1                   | 53                                                                               |
| ...B6V2/-Q         | DH   | 6.08                                                                                       | 6.32                    | < 10                                                                               | +2...+5                                                | 4                                                      | 3                   | 47                                                                               |
| ...B6V8/-Q         | DJ   | 6.66                                                                                       | 6.94                    | < 15                                                                               | +3...+6                                                | 4                                                      | 2                   | 43                                                                               |
| ...B7V5/-Q         | DK   | 7.35                                                                                       | 7.65                    | < 15                                                                               | +3...+6                                                | 5                                                      | 1                   | 39                                                                               |
| ...B8V2            | DM   | 8.04                                                                                       | 8.36                    | < 15                                                                               | +4...+7                                                | 5                                                      | 0.7                 | 36                                                                               |
| ...B9V1            | DN   | 8.50                                                                                       | 9.60                    | < 15                                                                               | +4...+7                                                | 6                                                      | 0.5                 | 31                                                                               |
| ...B10             | DP   | 9.8                                                                                        | 10.2                    | < 20                                                                               | +5...+8                                                | 7                                                      | 0.2                 | 29                                                                               |
| ...B11             | DR   | 10.8                                                                                       | 11.2                    | < 20                                                                               | +5...+8                                                | 8                                                      | 0.1                 | 27                                                                               |
| ...B12/-Q          | DX   | 11.8                                                                                       | 12.2                    | < 25                                                                               | +5...+8                                                | 8                                                      | 0.1                 | 25                                                                               |
| ...B13             | DY   | 12.7                                                                                       | 13.3                    | < 30                                                                               | +6...+9                                                | 8                                                      | 0.1                 | 23                                                                               |
| ...B15/-Q          | DZ   | 14.7                                                                                       | 15.3                    | < 30                                                                               | +6...+9                                                | 10.5                                                   | 0.05                | 20                                                                               |
| ...B16             | EA   | 15.7                                                                                       | 16.3                    | < 40                                                                               | +6...+9                                                | 11.2                                                   | 0.05                | 18                                                                               |
| ...B18             | EB   | 17.6                                                                                       | 18.4                    | < 45                                                                               | +6...+9                                                | 12.6                                                   | 0.05                | 16                                                                               |
| ...B20/-Q          | EC   | 19.6                                                                                       | 20.4                    | < 55                                                                               | +6...+9                                                | 14.0                                                   | 0.05                | 15                                                                               |
| ...B22             | ED   | 21.6                                                                                       | 22.4                    | < 55                                                                               | +7...+10                                               | 15.4                                                   | 0.05                | 13                                                                               |
| ...B24             | EE   | 23.5                                                                                       | 24.5                    | < 70                                                                               | +7...+10                                               | 16.8                                                   | 0.05                | 12                                                                               |
| $I_Z =$            |      | 2 mA                                                                                       | 2 mA                    | 2 mA                                                                               |                                                        |                                                        |                     |                                                                                  |
| ...B27/-Q          | EF   | 26.5                                                                                       | 27.5                    | < 80                                                                               | +7...+10                                               | 18.9                                                   | 0.05                | 11                                                                               |
| ...B30             | EH   | 29.4                                                                                       | 30.6                    | < 80                                                                               | +7...+10                                               | 21.0                                                   | 0.05                | 10                                                                               |
| ...B33             | EJ   | 32.3                                                                                       | 33.7                    | < 80                                                                               | +7...+10                                               | 23.1                                                   | 0.05                | 9                                                                                |
| ...B36             | EK   | 35.3                                                                                       | 36.7                    | < 90                                                                               | +7...+10                                               | 25.1                                                   | 0.05                | 8                                                                                |
| ...B39             | EM   | 38.2                                                                                       | 39.8                    | < 130                                                                              | +7...+10                                               | 27.3                                                   | 0.05                | 8                                                                                |
| ...B43             | EN   | 42.1                                                                                       | 43.9                    | < 150                                                                              | +7...+10                                               | 30.1                                                   | 0.05                | 7                                                                                |
| ...B47             | EP   | 46.1                                                                                       | 47.9                    | < 170                                                                              | +7...+10                                               | 32.9                                                   | 0.05                | 6                                                                                |

1 Tested with pulses (20 ms) – Gemessen mit Impulsen (20 ms)

2 Mounted on P.C. board with 3 mm<sup>2</sup> copper pads per terminal – Montage auf Leiterplatte mit 3 mm<sup>2</sup> Lötpad je Anschluss

3 Per device (current at pin 3) – Pro Bauteil (Strom an Pin 3)



**Disclaimer:** See data book page 2 or [website](#)  
**Haftungsausschluss:** Siehe Datenbuch Seite 2 oder [Internet](#)