

## ELECTRICAL CHARACTERISTICS

(Ta = 25 °C unless otherwise noted)

| Type      | Zener Voltage<br>V <sub>Z</sub> @ I <sub>ZT</sub> |                         | Maximum Zener<br>Impedance , f = 1kHz    |                                          |                         | Maximum Reverse<br>Leakage Current |                          | Temp. coefficient<br>of Zener Voltage<br><br>α <sub>vz</sub> (% / °C) |
|-----------|---------------------------------------------------|-------------------------|------------------------------------------|------------------------------------------|-------------------------|------------------------------------|--------------------------|-----------------------------------------------------------------------|
|           | Nom <sup>1)</sup><br>(V)                          | I <sub>ZT</sub><br>(mA) | Z <sub>YT</sub> @ I <sub>ZT</sub><br>(Ω) | Z <sub>ZK</sub> @ I <sub>ZK</sub><br>(Ω) | I <sub>ZK</sub><br>(mA) | I <sub>R</sub><br>(μA)             | at V <sub>R</sub><br>(V) |                                                                       |
| BZV55C2V4 | 2.4                                               | 5                       | 100                                      | 600                                      | 1                       | 50                                 | 1                        | -0.08...-0.06                                                         |
| BZV55C2V7 | 2.7                                               | 5                       | 100                                      | 600                                      | 1                       | 20                                 | 1                        | -0.08...-0.06                                                         |
| BZV55C3V0 | 3.0                                               | 5                       | 95                                       | 600                                      | 1                       | 10                                 | 1                        | -0.08...-0.05                                                         |
| BZV55C3V3 | 3.3                                               | 5                       | 95                                       | 600                                      | 1                       | 5                                  | 1                        | -0.08...-0.05                                                         |
| BZV55C3V6 | 3.6                                               | 5                       | 90                                       | 600                                      | 1                       | 5                                  | 1                        | -0.08...-0.04                                                         |
| BZV55C3V9 | 3.9                                               | 5                       | 90                                       | 600                                      | 1                       | 3                                  | 1                        | -0.07...-0.03                                                         |
| BZV55C4V3 | 4.3                                               | 5                       | 90                                       | 600                                      | 1                       | 3                                  | 1                        | -0.04...-0.01                                                         |
| BZV55C4V7 | 4.7                                               | 5                       | 80                                       | 500                                      | 1                       | 3                                  | 2                        | -0.03...+0.01                                                         |
| BZV55C5V1 | 5.1                                               | 5                       | 60                                       | 480                                      | 1                       | 2                                  | 2                        | -0.02...+0.05                                                         |
| BZV55C5V6 | 5.6                                               | 5                       | 40                                       | 400                                      | 1                       | 1                                  | 2                        | -0.01...+0.06                                                         |
| BZV55C6V2 | 6.2                                               | 5                       | 10                                       | 150                                      | 1                       | 3                                  | 4                        | 0.00...0.07                                                           |
| BZV55C6V8 | 6.8                                               | 5                       | 15                                       | 80                                       | 1                       | 2                                  | 4                        | 0.01...0.08                                                           |
| BZV55C7V5 | 7.5                                               | 5                       | 15                                       | 80                                       | 1                       | 1                                  | 5                        | 0.01...0.09                                                           |
| BZV55C8V2 | 8.2                                               | 5                       | 15                                       | 80                                       | 1                       | 0.7                                | 5                        | 0.01...0.09                                                           |
| BZV55C9V1 | 9.1                                               | 5                       | 15                                       | 100                                      | 1                       | 0.5                                | 6                        | 0.02...0.10                                                           |
| BZV55C10  | 10                                                | 5                       | 20                                       | 150                                      | 1                       | 0.2                                | 7                        | 0.03...0.11                                                           |
| BZV55C11  | 11                                                | 5                       | 20                                       | 150                                      | 1                       | 0.1                                | 8                        | 0.03...0.11                                                           |
| BZV55C12  | 12                                                | 5                       | 25                                       | 150                                      | 1                       | 0.1                                | 8                        | 0.03...0.11                                                           |
| BZV55C13  | 13                                                | 5                       | 30                                       | 170                                      | 1                       | 0.1                                | 8                        | 0.03...0.11                                                           |
| BZV55C15  | 15                                                | 5                       | 30                                       | 200                                      | 1                       | 0.05                               | 10                       | 0.03...0.11                                                           |
| BZV55C16  | 16                                                | 5                       | 40                                       | 200                                      | 1                       | 0.05                               | 11                       | 0.03...0.11                                                           |
| BZV55C18  | 18                                                | 5                       | 45                                       | 225                                      | 1                       | 0.05                               | 13                       | 0.03...0.11                                                           |
| BZV55C20  | 20                                                | 5                       | 55                                       | 225                                      | 1                       | 0.05                               | 14                       | 0.03...0.11                                                           |
| BZV55C22  | 22                                                | 5                       | 55                                       | 250                                      | 1                       | 0.05                               | 15                       | 0.03...0.11                                                           |
| BZV55C24  | 24                                                | 5                       | 70                                       | 250                                      | 1                       | 0.05                               | 17                       | 0.04...0.12                                                           |
| BZV55C27  | 27                                                | 2                       | 80                                       | 300                                      | 0.5                     | 0.05                               | 19                       | 0.04...0.12                                                           |
| BZV55C30  | 30                                                | 2                       | 80                                       | 300                                      | 0.5                     | 0.05                               | 21                       | 0.04...0.12                                                           |
| BZV55C33  | 33                                                | 2                       | 80                                       | 325                                      | 0.5                     | 0.05                               | 23                       | 0.04...0.12                                                           |
| BZV55C36  | 36                                                | 2                       | 90                                       | 350                                      | 0.5                     | 0.05                               | 25                       | 0.04...0.12                                                           |
| BZV55C39  | 39                                                | 2                       | 130                                      | 350                                      | 0.5                     | 0.05                               | 27                       | 0.04...0.12                                                           |
| BZV55C43  | 43                                                | 2                       | 150                                      | 375                                      | 0.5                     | 0.05                               | 30                       | 0.04...0.12                                                           |
| BZV55C47  | 47                                                | 2                       | 170                                      | 375                                      | 0.5                     | 0.05                               | 33                       | 0.04...0.12                                                           |
| BZV55C51  | 51                                                | 2                       | 180                                      | 400                                      | 0.5                     | 0.05                               | 36                       | 0.04...0.12                                                           |
| BZV55C56  | 56                                                | 2                       | 200                                      | 425                                      | 0.5                     | 0.05                               | 39                       | 0.1 (typ.)                                                            |
| BZV55C62  | 62                                                | 2                       | 215                                      | 450                                      | 0.5                     | 0.05                               | 43                       | 0.1 (typ.)                                                            |
| BZV55C68  | 68                                                | 2                       | 240                                      | 475                                      | 0.5                     | 0.05                               | 48                       | 0.1 (typ.)                                                            |
| BZV55C75  | 75                                                | 2                       | 255                                      | 500                                      | 0.5                     | 0.05                               | 53                       | 0.1 (typ.)                                                            |

Notes : 1) Tested with pulses tp = 5 ms

2) Valid Provided that leads are kept at ambient temperature.

3) The type number listed have a standard tolerance on the nominal zener voltage of ± 5.0%.

For ± 2% tolerance altered the sixth letter of type from "C" to be "B"