

## Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise specified)

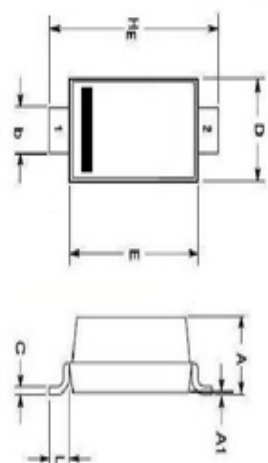
| Type Number | Marking Code | Zener Voltage Range             |         |         |                 | Maximum Zener Impedance          |                                  |                 | Reverse Current |                 | Temperature Coefficient of Zener Voltage<br>@I <sub>ZT</sub> =5mA<br>mV/°C |      |
|-------------|--------------|---------------------------------|---------|---------|-----------------|----------------------------------|----------------------------------|-----------------|-----------------|-----------------|----------------------------------------------------------------------------|------|
|             |              | V <sub>Z</sub> @I <sub>ZT</sub> |         |         | Z <sub>TI</sub> | Z <sub>ZT</sub> @I <sub>ZT</sub> | Z <sub>ZK</sub> @I <sub>ZK</sub> | I <sub>ZK</sub> | I <sub>R</sub>  | @V <sub>R</sub> |                                                                            |      |
|             |              | Nom (V)                         | Min (V) | Max (V) | mA              | Ω                                |                                  | mA              | uA              | V               | Min                                                                        | Max  |
| BZT52C9V1S  | WE           | 9.1                             | 8.5     | 9.6     | 5               | 15                               | 100                              | 1               | 0.5             | 6               | 3.8                                                                        | 7    |
| BZT52C10S   | WF           | 10                              | 9.4     | 10.6    | 5               | 20                               | 150                              | 1               | 0.2             | 7               | 4.5                                                                        | 8    |
| BZT52C11S   | WG           | 11                              | 10.4    | 11.6    | 5               | 20                               | 150                              | 1               | 0.1             | 8               | 5.4                                                                        | 9    |
| BZT52C12S   | WH           | 12                              | 11.4    | 12.7    | 5               | 25                               | 150                              | 1               | 0.1             | 8               | 6                                                                          | 10   |
| BZT52C13S   | WI           | 13                              | 12.4    | 14.1    | 5               | 30                               | 170                              | 1               | 0.1             | 8               | 7                                                                          | 11   |
| BZT52C15S   | WJ           | 15                              | 13.8    | 15.6    | 5               | 30                               | 200                              | 1               | 0.1             | 10.5            | 9.2                                                                        | 13   |
| BZT52C16S   | WK           | 16                              | 15.3    | 17.1    | 5               | 40                               | 200                              | 1               | 0.1             | 11.2            | 10.4                                                                       | 14   |
| BZT52C18S   | WL           | 18                              | 16.8    | 19.1    | 5               | 45                               | 225                              | 1               | 0.1             | 12.6            | 12.4                                                                       | 16   |
| BZT52C20S   | WM           | 20                              | 18.8    | 21.2    | 5               | 55                               | 225                              | 1               | 0.1             | 14              | 14.4                                                                       | 18   |
| BZT52C22S   | WN           | 22                              | 20.8    | 23.3    | 5               | 55                               | 250                              | 1               | 0.1             | 15.4            | 16.4                                                                       | 20   |
| BZT52C24S   | WO           | 24                              | 22.8    | 25.6    | 5               | 70                               | 250                              | 1               | 0.1             | 16.8            | 18.4                                                                       | 22   |
| BZT52C27S   | WP           | 27                              | 25.1    | 28.9    | 2               | 80                               | 300                              | 0.5             | 0.1             | 18.9            | 21.4                                                                       | 25.3 |
| BZT52C30S   | WQ           | 30                              | 28      | 32      | 2               | 80                               | 300                              | 0.5             | 0.1             | 21              | 24.4                                                                       | 29.4 |
| BZT52C33S   | WR           | 33                              | 31      | 35      | 2               | 80                               | 325                              | 0.5             | 0.1             | 23.1            | 27.4                                                                       | 33.4 |
| BZT52C36S   | WS           | 36                              | 34      | 38      | 2               | 90                               | 350                              | 0.5             | 0.1             | 25.2            | 30.4                                                                       | 37.4 |
| BZT52C39S   | WT           | 39                              | 37      | 41      | 2               | 130                              | 350                              | 0.5             | 0.1             | 27.3            | 33.4                                                                       | 41.2 |
| BZT52C43S   | WU           | 43                              | 40.0    | 46.0    | 2               | 100                              | 700                              | 1.0             | 0.1             | 32.0            | 10.0                                                                       | 12.0 |
| BZT52C47S   | WV           | 47                              | 44.0    | 50.0    | 2               | 100                              | 750                              | 1.0             | 0.1             | 35.0            | 10.0                                                                       | 12.0 |
| BZT52C51S   | WW           | 51                              | 48.0    | 54.0    | 2               | 100                              | 750                              | 1.0             | 0.1             | 38.0            | 10.0                                                                       | 12.0 |

## **BZT52CxxxS Series**

Surface Mount Zener Diodes

V<sub>z</sub> Range: 2.4 to 51V Power Dissipation: 500mW

### **Product Dimensions**



Unit: mm

|    | SOD-323 |       |
|----|---------|-------|
|    | min     | max   |
| A  | 0.80    | 1.00  |
| A1 | 0.00    | 0.10  |
| b  | 0.25    | 0.40  |
| C  | 0.089   | 0.177 |
| D  | 1.15    | 1.35  |
| E  | 1.60    | 1.80  |
| HE | 2.30    | 2.70  |
| L  | 0.20    | 0.40  |

PIN: 1. CATHODE 2. ANODE