

BZT52B2V4S THRU BZT52B75S

Electrical Characteristics@25°C

| Part Number | Nominal Zener Voltage | | | Max. Zener Impedance | | | | Max Reverse Leakage Current | | Marking Code |
|-------------|----------------------------------|--------|--------|-----------------------------------|-----|-----------------------------------|------|---------------------------------|------|--------------|
| | V _Z @ I _{ZT} | | | Z _{ZT} @ I _{ZT} | | Z _{ZK} @ I _{ZK} | | I _R @ V _R | | |
| | Nom. V | Min. V | Max. V | Ω | mA | Ω | mA | μA | V | |
| BZT52B2V4S | 2.4 | 2.35 | 2.45 | 85 | 5.0 | 600 | 1.00 | 100 | 1.0 | W1 |
| BZT52B2V7S | 2.7 | 2.64 | 2.75 | 83 | 5.0 | 600 | 1.00 | 75 | 1.0 | W2 |
| BZT52B3V0S | 3.0 | 2.94 | 3.06 | 95 | 5.0 | 600 | 1.00 | 50 | 1.0 | W3 |
| BZT52B3V3S | 3.3 | 3.23 | 3.37 | 95 | 5.0 | 600 | 1.00 | 25 | 1.0 | W4 |
| BZT52B3V6S | 3.6 | 3.52 | 3.67 | 95 | 5.0 | 600 | 1.00 | 15 | 1.0 | W5 |
| BZT52B3V9S | 3.9 | 3.82 | 3.98 | 95 | 5.0 | 600 | 1.00 | 10 | 1.0 | W6 |
| BZT52B4V3S | 4.3 | 4.21 | 4.39 | 95 | 5.0 | 600 | 1.00 | 5.0 | 1.0 | W7 |
| BZT52B4V7S | 4.7 | 4.61 | 4.79 | 78 | 5.0 | 500 | 1.00 | 5.0 | 1.0 | W8 |
| BZT52B5V1S | 5.1 | 5.00 | 5.20 | 60 | 5.0 | 480 | 1.00 | 0.1 | 0.8 | W9 |
| BZT52B5V6S | 5.6 | 5.49 | 5.71 | 40 | 5.0 | 400 | 1.00 | 0.1 | 1.0 | WA |
| BZT52B5V8S | 5.8 | 5.68 | 5.92 | 30 | 5.0 | 300 | 1.00 | 0.1 | 1.5 | 85C |
| BZT52B6V2S | 6.2 | 6.08 | 6.32 | 10 | 5.0 | 150 | 1.00 | 0.1 | 2.0 | WB |
| BZT52B6V8S | 6.8 | 6.66 | 6.94 | 8 | 5.0 | 80 | 1.00 | 0.1 | 3.0 | WC |
| BZT52B7V5S | 7.5 | 7.35 | 7.65 | 7 | 5.0 | 80 | 1.00 | 0.1 | 5.0 | WD |
| BZT52B8V2S | 8.2 | 8.04 | 8.36 | 7 | 5.0 | 80 | 1.00 | 0.1 | 6.0 | WE |
| BZT52B8V7S | 8.7 | 8.53 | 8.87 | 7 | 5.0 | 100 | 1.00 | 0.1 | 6.5 | 87C |
| BZT52B9V1S | 9.1 | 8.92 | 9.28 | 10 | 5.0 | 100 | 1.00 | 0.1 | 7.0 | WF |
| BZT52B10S | 10 | 9.80 | 10.20 | 15 | 5.0 | 150 | 1.00 | 0.1 | 7.5 | WG |
| BZT52B11S | 11 | 10.78 | 11.22 | 20 | 5.0 | 150 | 1.00 | 0.1 | 8.5 | WH |
| BZT52B12S | 12 | 11.76 | 12.24 | 20 | 5.0 | 150 | 1.00 | 0.1 | 9.0 | WI |
| BZT52B13S | 13 | 12.74 | 13.26 | 25 | 5.0 | 170 | 1.00 | 0.1 | 10.0 | WK |
| BZT52B14S | 14 | 13.72 | 14.28 | 25 | 5.0 | 170 | 1.00 | 0.1 | 10.5 | WJ |
| BZT52B15S | 15 | 14.70 | 15.30 | 30 | 5.0 | 200 | 1.00 | 0.1 | 11.0 | WL |
| BZT52B16S | 16 | 15.68 | 16.32 | 40 | 5.0 | 200 | 1.00 | 0.1 | 12.0 | WM |
| BZT52B17S | 17 | 16.66 | 17.34 | 40 | 5.0 | 200 | 1.00 | 0.1 | 13.0 | 17C |
| BZT52B18S | 18 | 17.64 | 18.36 | 50 | 5.0 | 225 | 1.00 | 0.1 | 14.0 | WN |
| BZT52B20S | 20 | 19.60 | 20.40 | 50 | 5.0 | 225 | 1.00 | 0.1 | 15.0 | WO |
| BZT52B22S | 22 | 21.56 | 22.44 | 55 | 5.0 | 250 | 1.00 | 0.1 | 17.0 | WP |
| BZT52B24S | 24 | 23.52 | 24.48 | 80 | 5.0 | 250 | 1.00 | 0.1 | 18.0 | WR |
| BZT52B27S | 27 | 26.46 | 27.54 | 80 | 5.0 | 300 | 1.00 | 0.1 | 20.0 | WS |
| BZT52B28S | 28 | 27.44 | 28.56 | 80 | 5.0 | 300 | 1.00 | 0.1 | 22.0 | 28C |
| BZT52B30S | 30 | 29.40 | 30.60 | 80 | 5.0 | 300 | 1.00 | 0.1 | 22.5 | WT |
| BZT52B33S | 33 | 32.34 | 33.66 | 80 | 5.0 | 325 | 1.00 | 0.1 | 25.0 | WU |
| BZT52B36S | 36 | 35.28 | 36.72 | 90 | 5.0 | 350 | 1.00 | 0.1 | 27.0 | WW |
| BZT52B39S | 39 | 38.22 | 39.78 | 90 | 5.0 | 350 | 1.00 | 0.1 | 29.0 | WX |
| BZT52B43S | 43 | 42.14 | 43.86 | 100 | 5.0 | 375 | 1.00 | 0.1 | 32.0 | WY |
| BZT52B47S | 47 | 46.06 | 47.94 | 100 | 5.0 | 375 | 1.00 | 0.1 | 35.0 | WZ |
| BZT52B51S | 51 | 49.98 | 52.02 | 100 | 5.0 | 400 | 1.00 | 0.1 | 38.0 | XA |
| BZT52B56S | 56 | 54.88 | 57.12 | 135 | 2.5 | 1000 | 1.00 | 0.1 | 42.0 | X2 |
| BZT52B62S | 62 | 60.76 | 63.24 | 150 | 2.5 | 1000 | 1.00 | 0.1 | 46.0 | X3 |
| BZT52B68S | 68 | 66.64 | 69.36 | 200 | 2.5 | 1000 | 1.00 | 0.1 | 51.0 | X4 |
| BZT52B75S | 75 | 73.50 | 76.50 | 250 | 2.5 | 1000 | 1.00 | 0.1 | 56.0 | X5 |

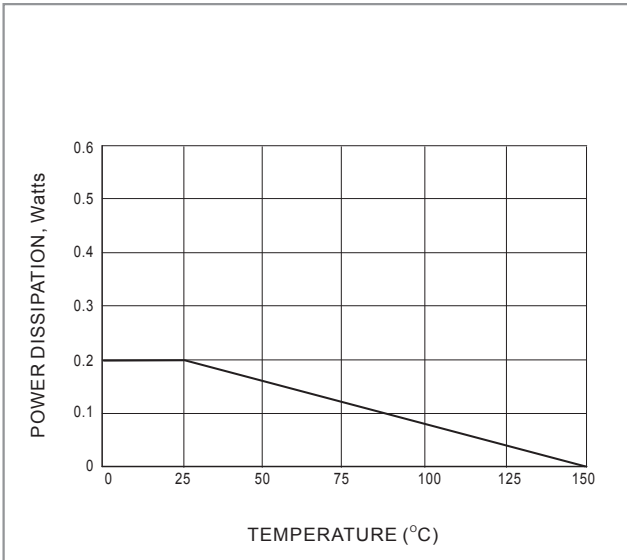


Fig.1 STEADY STATE POWER DERATING

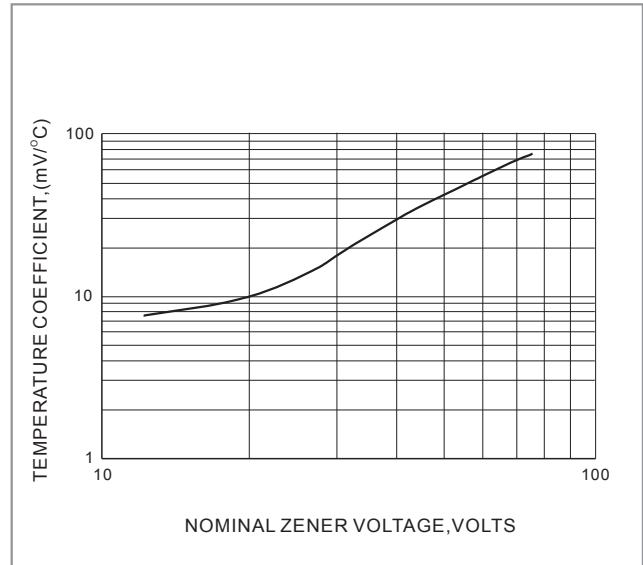


Fig.2 TEMPERATURE COEFFICIENTS

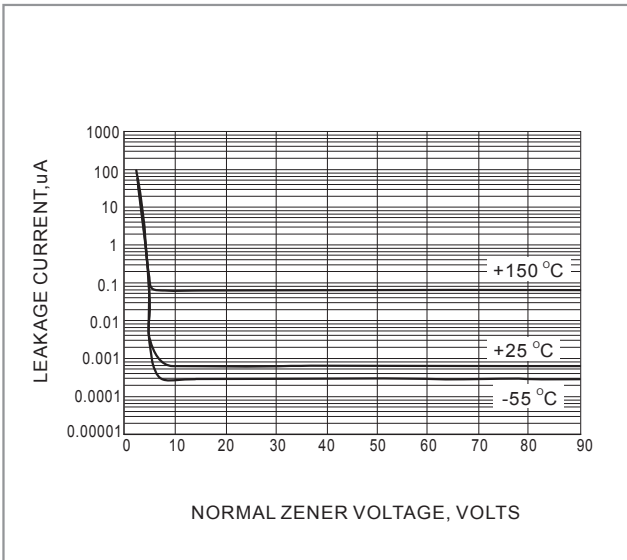


Fig.3 TYPICAL LEAKAGE CURRENT

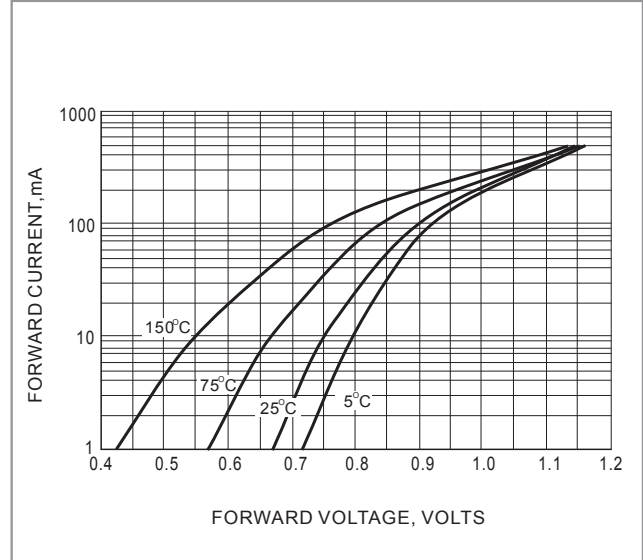


Fig.4 TYPICAL FORWARD VOLTAGE



Micro Commercial Components

Ordering Information :

| Device | Packing |
|----------------|-----------------------|
| Part Number-TP | Tape&Reel: 3Kpcs/Reel |

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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