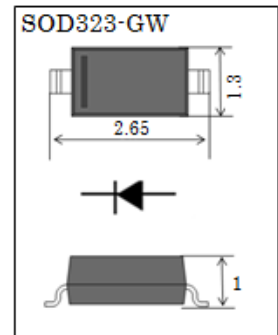


Zener Diodes / DATA SHEET

BZT52C2V4S–BZT52C75S Series

- ◇ Constant Voltage control
- ◇ Wide Voltage Range Selection 2.4V to 75V
- ◇ SOD323–GW Thin SMD package
- ◇ RoHS compliant / Green EMC
- ◇ Matte Tin (Sn) Lead finish
- ◇ Device marking: Refer to table list



Absolute Maximum Ratings (Ta = 25 °C)

| Symbol | Parameter | Value | Units |
|-----------|---------------------------|-------------|-------|
| P_D | Power Dissipation | 200 | mW |
| T_J | Junction Temperature | 150 | °C |
| T_{STG} | Storage Temperature | -55 to +150 | °C |
| I_{ZM} | Maximum Regulator Current | P_D/V_Z | mA |

Electrical Characteristics (Ta = 25 °C)

| Type Number | Device Marking | V_Z (V) *1 | | | I_{ZT} mA | $Z_{ZT}@I_{ZT}$ Ω | $Z_{ZK}@I_{ZK}$ Ω | I_{zk} (mA) | I_R (μ A) | V_R (V) |
|-------------|----------------|--------------|--------|--------|----------------|-----------------------------|-----------------------------|------------------|---------------------|--------------|
| | | Nom(V) | Min(V) | Max(V) | | | | | | |
| BZT52C2V4S | WX | 2.4 | 2.28 | 2.52 | 5 | 100 | 600 | 1.0 | 50 | 1.0 |
| BZT52C2V7S | W1 | 2.7 | 2.57 | 2.84 | 5 | 100 | 600 | 1.0 | 20 | 1.0 |
| BZT52C3V0S | W2 | 3.0 | 2.85 | 3.15 | 5 | 95 | 600 | 1.0 | 10 | 1.0 |
| BZT52C3V3S | W3 | 3.3 | 3.14 | 3.47 | 5 | 95 | 600 | 1.0 | 5 | 1.0 |
| BZT52C3V6S | W4 | 3.6 | 3.42 | 3.78 | 5 | 90 | 600 | 1.0 | 5 | 1.0 |
| BZT52C3V9S | W5 | 3.9 | 3.71 | 4.10 | 5 | 90 | 600 | 1.0 | 3 | 1.0 |
| BZT52C4V3S | W6 | 4.3 | 4.09 | 4.52 | 5 | 90 | 600 | 1.0 | 3 | 1.0 |
| BZT52C4V7S | W7 | 4.7 | 4.47 | 4.94 | 5 | 80 | 500 | 1.0 | 3 | 2.0 |
| BZT52C5V1S | W8 | 5.1 | 4.85 | 5.36 | 5 | 60 | 480 | 1.0 | 2 | 2.0 |
| BZT52C5V6S | W9 | 5.6 | 5.32 | 5.88 | 5 | 40 | 400 | 1.0 | 1 | 2.0 |
| BZT52C6V2S | WA | 6.2 | 5.89 | 6.51 | 5 | 10 | 150 | 1.0 | 3 | 4.0 |

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Electrical Characteristics (Ta = 25 °C)

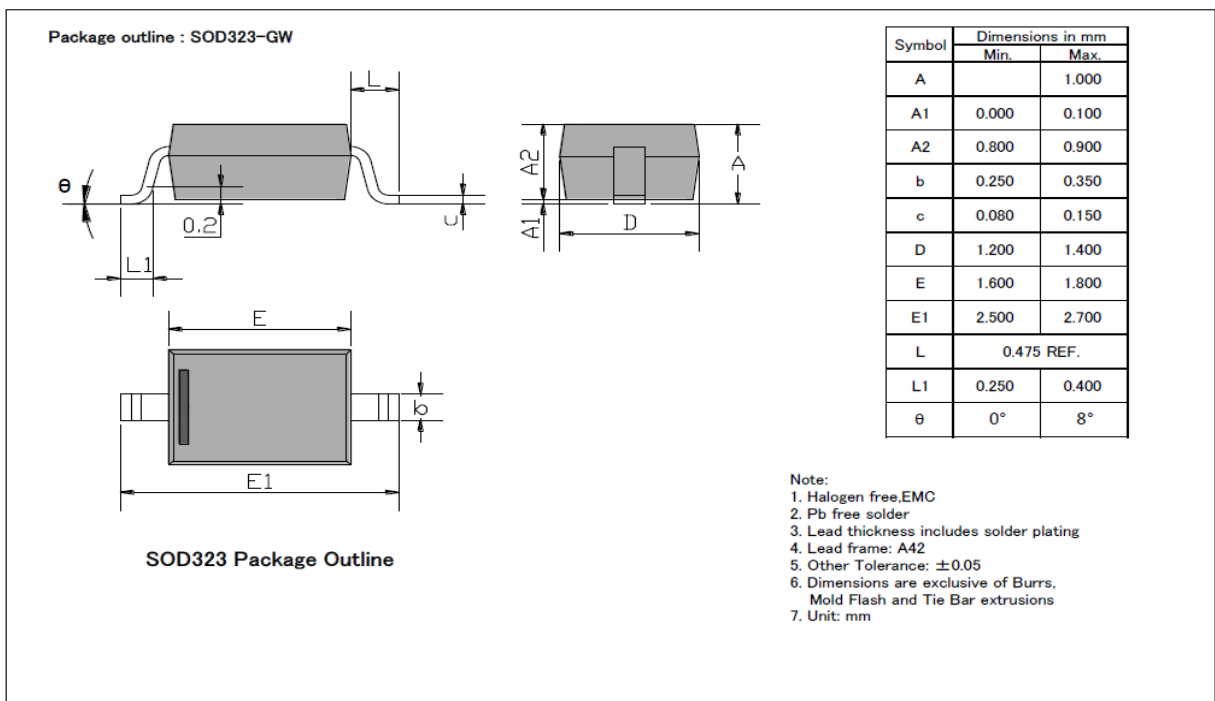
| Type Number | Device Marking | Vz (V) *1 | | | I _{ZT} | Z _{ZT} @I _{ZT} | Z _{ZK} @I _{ZK} | I _{ZK} (mA) | I _R (uA) | V _R (V) |
|-------------|----------------|-----------|--------|--------|-----------------|----------------------------------|----------------------------------|-------------------------|------------------------|-----------------------|
| | | Nom(V) | Min(V) | Max(V) | mA | Ω | | | | |
| BZT52C6V8S | WB | 6.8 | 6.46 | 7.14 | 5 | 15 | 80 | 1.0 | 2 | 4.0 |
| BZT52C7V5S | WC | 7.5 | 7.13 | 7.88 | 5 | 15 | 80 | 1.0 | 1 | 5.0 |
| BZT52C8V2S | WD | 8.2 | 7.79 | 8.61 | 5 | 15 | 80 | 1.0 | 0.7 | 5.0 |
| BZT52C9V1S | WE | 9.1 | 8.65 | 9.56 | 5 | 15 | 100 | 1.0 | 0.5 | 6.0 |
| BZT52C10S | WF | 10.0 | 9.50 | 10.50 | 5 | 20 | 150 | 1.0 | 0.2 | 7.0 |
| BZT52C11S | WG | 11.0 | 10.45 | 11.55 | 5 | 20 | 150 | 1.0 | 0.1 | 8.0 |
| BZT52C12S | WH | 12.0 | 11.40 | 12.60 | 5 | 25 | 150 | 1.0 | 0.1 | 8.0 |
| BZT52C13S | WI | 13.0 | 12.35 | 13.65 | 5 | 30 | 170 | 1.0 | 0.1 | 8.0 |
| BZT52C15S | WJ | 15.0 | 14.25 | 15.75 | 5 | 30 | 200 | 1.0 | 0.1 | 10.5 |
| BZT52C16S | WK | 16.0 | 15.20 | 16.80 | 5 | 40 | 200 | 1.0 | 0.1 | 11.2 |
| BZT52C18S | WL | 18.0 | 17.10 | 18.90 | 5 | 45 | 225 | 1.0 | 0.1 | 12.6 |
| BZT52C20S | WM | 20.0 | 19.00 | 21.00 | 5 | 55 | 225 | 1.0 | 0.1 | 14.0 |
| BZT52C22S | WN | 22.0 | 20.90 | 23.10 | 5 | 55 | 250 | 1.0 | 0.1 | 15.4 |
| BZT52C24S | WO | 24.0 | 22.80 | 25.20 | 5 | 70 | 250 | 1.0 | 0.1 | 16.8 |
| BZT52C27S | WP | 27.0 | 25.65 | 28.35 | 2 | 80 | 300 | 0.5 | 0.1 | 18.9 |
| BZT52C30S | WQ | 30.0 | 28.50 | 31.50 | 2 | 80 | 300 | 0.5 | 0.1 | 21.0 |
| BZT52C33S | WR | 33.0 | 31.35 | 34.65 | 2 | 80 | 325 | 0.5 | 0.1 | 23.1 |
| BZT52C36S | WS | 36.0 | 34.20 | 37.80 | 2 | 90 | 350 | 0.5 | 0.1 | 25.2 |
| BZT52C39S | WT | 39.0 | 37.05 | 40.95 | 2 | 130 | 350 | 0.5 | 0.1 | 27.3 |
| BZT52C43S | WU | 43.0 | 40.85 | 45.15 | 2 | 130 | 350 | 0.5 | 0.1 | 29.4 |
| BZT52C47S | WV | 47.0 | 44.65 | 49.35 | 2 | 170 | 1000 | 0.25 | 0.1 | 36 |
| BZT52C51S | X1 | 51 | 48.45 | 53.55 | 2 | 180 | 1300 | 0.25 | 0.1 | 39 |
| BZT52C56S | X2 | 56 | 53.20 | 58.80 | 2 | 200 | 1400 | 0.25 | 0.1 | 43 |
| BZT52C62S | X3 | 62 | 58.90 | 65.10 | 2 | 225 | 1400 | 0.25 | 0.1 | 47 |
| BZT52C68S | X4 | 68 | 64.60 | 71.40 | 2 | 240 | 1600 | 0.25 | 0.1 | 52 |
| BZT52C75S | X5 | 75 | 71.25 | 78.75 | 2 | 265 | 1700 | 0.25 | 0.1 | 56 |

*1 Pulse width = 10 ms

Ordering Information

| Device | Package | Shipping | Tape wide | Emboss pitch | Tape specification | Notes |
|------------|-----------|-------------------------------------|-----------|--------------|--------------------|-------|
| BZT Series | SOD323-GW | Tape & Reel 3000pcs / 7" Reel | 8 mm | 4 mm | Conductive | |

Package Dimensions



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