

FEATURES

- * Ideal for surface mount applications
- * Easy pick and place
- * High temperature soldering guaranteed:
260°C / 10 seconds at terminals

MECHANICAL DATA

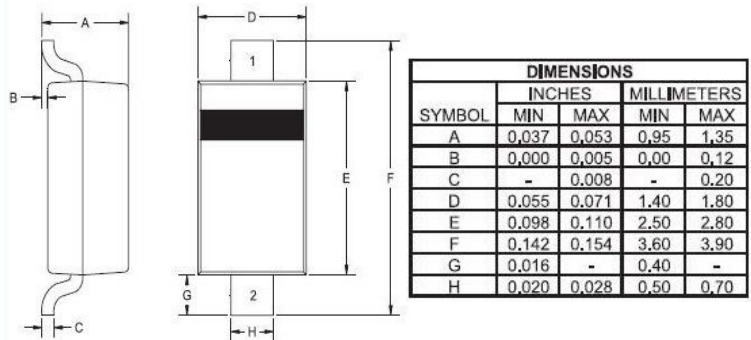
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Polarity: Color band denotes cathode end
- * Mounting position: Any

VOLTAGE RANGE

2.0 to 75 Volts

500mW

SOD123



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

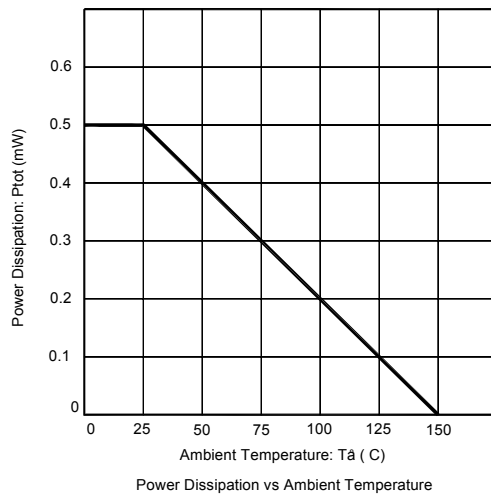
Absolute Maximum Ratings (T_a = 25°C)

| Parameter | Symbol | Value | Unit |
|---------------------------|------------------|---------------|------|
| Power Dissipation | P _{tot} | 500 | mW |
| Junction Temperature | T _J | 150 | °C |
| Storage Temperature Range | T _{stg} | - 65 to + 150 | °C |

Characteristics at T_a = 25°C

| Parameter | Symbol | Max. | Unit |
|--|------------------|------|------|
| Thermal Resistance Junction to Ambient Air | R _{thA} | 340 | °C/W |
| Forward Voltage at I _F = 10 mA | V _F | 0.9 | V |

BZT52C2V0 THRU BZT52C75



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Characteristics at Ta = 25°C

| Type | Marking | Zener Voltage Range ⁽²⁾ | | | | Maximum Zener ⁽³⁾ Impedance | | | | Reverse Current ⁽²⁾ | |
|-----------|---------|--|-----------|-----------|-----------------|---|-----------------|----------------------------------|-----------------|--------------------------------|-----------------|
| | | V _{ZT} (at I _{ZT}) | | | I _{ZT} | Z _{ZT} @I _{ZT} | I _{ZT} | Z _{ZK} @I _{ZK} | I _{ZK} | I _R | @V _R |
| | | Min (V) | Nom (V) | Max (V) | (mA) | (Ω) | (mA) | (Ω) | (mA) | μA | V |
| BZT52C2V0 | WY | 1.91 | 2.0 | 2.09 | 5 | 100 | 5 | 600 | 1 | 150 | 1.0 |
| BZT52C2V4 | WX | 2.2 | 2.4 | 2.6 | 5 | 100 | 5 | 600 | 1 | 50 | 1.0 |
| BZT52C2V7 | W1 | 2.5 | 2.7 | 2.9 | 5 | 100 | 5 | 600 | 1 | 20 | 1.0 |
| BZT52C3V0 | W2 | 2.8 | 3.0 | 3.2 | 5 | 95 | 5 | 600 | 1 | 10 | 1.0 |
| BZT52C3V3 | W3 | 3.1 | 3.3 | 3.5 | 5 | 95 | 5 | 600 | 1 | 5.0 | 1.0 |
| BZT52C3V6 | W4 | 3.4 | 3.6 | 3.8 | 5 | 90 | 5 | 600 | 1 | 5.0 | 1.0 |
| BZT52C3V9 | W5 | 3.7 | 3.9 | 4.1 | 5 | 90 | 5 | 600 | 1 | 3.0 | 1.0 |
| BZT52C4V3 | W6 | 4 | 4.3 | 4.6 | 5 | 90 | 5 | 600 | 1 | 3.0 | 1.0 |
| BZT52C4V7 | W7 | 4.4 | 4.7 | 5 | 5 | 80 | 5 | 500 | 1 | 3.0 | 2.0 |
| BZT52C5V1 | W8 | 4.8 | 5.1 | 5.4 | 5 | 60 | 5 | 480 | 1 | 2.0 | 2.0 |
| BZT52C5V6 | W9 | 5.2 | 5.6 | 6 | 5 | 40 | 5 | 400 | 1 | 1.0 | 2.0 |
| BZT52C6V2 | WA | 5.8 | 6.2 | 6.6 | 5 | 10 | 5 | 150 | 1 | 3.0 | 4.0 |
| BZT52C6V8 | WB | 6.4 | 6.8 | 7.2 | 5 | 15 | 5 | 80 | 1 | 2.0 | 4.0 |
| BZT52C7V5 | WC | 7 | 7.5 | 7.9 | 5 | 15 | 5 | 80 | 1 | 1.0 | 5.0 |
| BZT52C8V2 | WD | 7.7 | 8.2 | 8.7 | 5 | 15 | 5 | 80 | 1 | 0.7 | 5.0 |
| BZT52C9V1 | WE | 8.5 | 9.1 | 9.6 | 5 | 15 | 5 | 100 | 1 | 0.5 | 6.0 |
| BZT52C10 | WF | 9.4 | 10 | 10.6 | 5 | 20 | 5 | 150 | 1 | 0.2 | 7.0 |
| BZT52C11 | WG | 10.4 | 11 | 11.6 | 5 | 20 | 5 | 150 | 1 | 0.1 | 8.0 |
| BZT52C12 | WH | 11.4 | 12 | 12.7 | 5 | 25 | 5 | 150 | 1 | 0.1 | 8.0 |
| BZT52C13 | WI | 12.4 | 13 | 14.1 | 5 | 30 | 5 | 170 | 1 | 0.1 | 8.0 |
| BZT52C15 | WJ | 13.8 | 15 | 15.6 | 5 | 30 | 5 | 200 | 1 | 0.1 | 10.5 |
| BZT52C16 | WK | 15.3 | 16 | 17.1 | 5 | 40 | 5 | 200 | 1 | 0.1 | 11.2 |
| BZT52C18 | WL | 16.8 | 18 | 19.1 | 5 | 45 | 5 | 225 | 1 | 0.1 | 12.6 |
| BZT52C20 | WM | 18.8 | 20 | 21.2 | 5 | 55 | 5 | 225 | 1 | 0.1 | 14.0 |
| BZT52C22 | WN | 20.8 | 22 | 23.3 | 5 | 55 | 5 | 250 | 1 | 0.1 | 15.4 |
| BZT52C24 | WO | 22.8 | 24 | 25.6 | 5 | 70 | 5 | 250 | 1 | 0.1 | 16.8 |
| BZT52C27 | WP | 25.1 | 27 | 28.9 | 2 | 80 | 2 | 300 | 0.5 | 0.1 | 18.9 |
| BZT52C30 | WQ | 28 | 30 | 32 | 2 | 80 | 2 | 300 | 0.5 | 0.1 | 21.0 |
| BZT52C33 | WR | 31 | 33 | 35 | 2 | 80 | 2 | 325 | 0.5 | 0.1 | 23.1 |
| BZT52C36 | WS | 34 | 36 | 38 | 2 | 90 | 2 | 350 | 0.5 | 0.1 | 25.2 |
| BZT52C39 | WT | 37 | 39 | 41 | 2 | 130 | 2 | 350 | 0.5 | 0.1 | 27.3 |
| BZT52C43 | 6A | 40 | 43 | 46 | 2.5 | 130 | 2 | 500 | 1 | 2 | 33 |
| BZT52C47 | 6B | 44 | 47 | 50 | 2.5 | 150 | 2 | 500 | 1 | 2 | 36 |
| BZT52C51 | 6C | 48 | 51 | 54 | 2.5 | 180 | 2 | 500 | 1 | 1 | 37 |
| BZT52C56 | 6D | 52 | 56 | 60 | 2.5 | 180 | 2 | 500 | 1 | 1 | 43 |
| BZT52C62 | 6E | 58 | 62 | 66 | 2.5 | 200 | 2 | 500 | 1 | 0.2 | 47 |
| BZT52C68 | 6F | 64 | 68 | 72 | 2.5 | 250 | 2 | 500 | 1 | 0.2 | 52 |
| BZT52C75 | 6H | 70 | 75 | 79 | 2.5 | 300 | 2 | 500 | 1 | 0.2 | 57 |

¹⁾ V_{ZT} is tested with pulses (20 ms).

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