



Product data sheet

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BZX84B2V4-BZX84B39

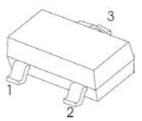
Semiconductor Compiance

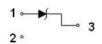


FEATURES

- Planar Die Construction
- 300mW Power Dissipation
- Zener Voltages from 2.4V 39V
- Ultra-Small Surface Mount Package Power Dissipation

SOT-23





MAXMUM RATINGS(T_a=25°C unless otherwise specified)

| Characteristic | Symbol | Value | Unit | |
|--|------------------|----------|------|--|
| Forward Voltage (Note 2) @ I _F = 10mA | V _F | 0.9 | V | |
| Power Dissipation(Note 1) | Pd | 300 | mW | |
| Thermal Resistance from Junction to Ambient | R _{θJA} | 417 | W | |
| Junction Temperature | Tj | 150 | | |
| Storage Temperature Range | Tstg | -55~+150 | | |



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ELECTRICAL CHARACTERISTICS

T =25℃ unless otherwise specified

| P/N | MARK | Zener Voltage Range (Note 2) | | | Maximum Zener Impedance (Note 3) | | Maximum Reverse Current | | Typical Temperature Coefficent @I _{ZT} =5 mA | | | |
|-----------|------|------------------------------|--------|----------------------------------|-------------------------------------|-----------------|-------------------------------|----------------|--|------|------|------|
| | | Vz@Izt Izt | | Z _{ZT} @I _{ZT} | Z _{zĸ} @I _{zĸ} | I _{ZK} | I _R | V _R | m∨ | /°C | | |
| | | Nom(V) | Min(V) | Max(V) | mA | 9 | 2 | mA | μA | V | Min | Max |
| BZX84B2V4 | 2Z11 | 2.4 | 2.35 | 2.45 | 5 | 100 | 600 | 1.0 | 50 | 1.0 | -3.5 | 0 |
| BZX84B2V7 | 2Z12 | 2.7 | 2.65 | 2.75 | 5 | 100 | 600 | 1.0 | 20 | 1.0 | -3.5 | 0 |
| BZX84B3V0 | 2Z13 | 3 | 2.94 | 3.06 | 5 | 95 | 600 | 1.0 | 10 | 1.0 | -3.5 | 0 |
| BZX84B3V3 | 2Z14 | 3.3 | 3.23 | 3.37 | 5 | 95 | 600 | 1.0 | 5 | 1.0 | -3.5 | 0 |
| BZX84B3V6 | 2Z15 | 3.6 | 3.53 | 3.67 | 5 | 90 | 600 | 1.0 | 5 | 1.0 | -3.5 | 0 |
| BZX84B3V9 | 2Z16 | 3.9 | 3.82 | 3.98 | 5 | 90 | 600 | 1.0 | 3 | 1.0 | -3.5 | 0 |
| BZX84B4V3 | 2Z17 | 4.3 | 4.21 | 4.39 | 5 | 90 | 600 | 1.0 | 3 | 1.0 | -3.5 | 0 |
| BZX84B4V7 | 2Z1 | 4.7 | 4.61 | 4.79 | 5 | 80 | 500 | 1.0 | 3 | 2.0 | -3.5 | 0.2 |
| BZX84B5V1 | 2Z2 | 5.1 | 5.00 | 5.20 | 5 | 60 | 480 | 1.0 | 2 | 2.0 | -2.7 | 1.2 |
| BZX84B5V6 | 2Z3 | 5.6 | 5.49 | 5.71 | 5 | 40 | 400 | 1.0 | 1 | 2.0 | -2.0 | 2.5 |
| BZX84B6V2 | 2Z4 | 6.2 | 6.08 | 6.32 | 5 | 10 | 150 | 1.0 | 3 | 4.0 | 0.4 | 3.7 |
| BZX84B6V8 | 2Z5 | 6.8 | 6.66 | 6.94 | 5 | 15 | 80 | 1.0 | 2 | 4.0 | 1.2 | 4.5 |
| BZX84B7V5 | 2Z6 | 7.5 | 7.35 | 7.65 | 5 | 15 | 80 | 1.0 | 1 | 5.0 | 2.5 | 5.3 |
| BZX84B8V2 | 2Z7 | 8.2 | 8.04 | 8.36 | 5 | 15 | 80 | 1.0 | 0.7 | 5.0 | 3.2 | 6.2 |
| BZX84B9V1 | 2Z8 | 9.1 | 8.92 | 9.28 | 5 | 15 | 100 | 1.0 | 0.5 | 6.0 | 3.8 | 7.0 |
| BZX84B10 | 2Z9 | 10 | 9.80 | 10.20 | 5 | 20 | 150 | 1.0 | 0.2 | 7.0 | 4.5 | 8.0 |
| BZX84B11 | 2Y1 | 11 | 10.78 | 11.22 | 5 | 20 | 150 | 1.0 | 0.1 | 8.0 | 5.4 | 9.0 |
| BZX84B12 | 2Y2 | 12 | 11.76 | 12.24 | 5 | 25 | 150 | 1.0 | 0.1 | 8.0 | 6.0 | 10.0 |
| BZX84B13 | 2Y3 | 13 | 12.74 | 13.26 | 5 | 30 | 170 | 1.0 | 0.1 | 8.0 | 7.0 | 11.0 |
| BZX84B15 | 2Y4 | 15 | 14.70 | 15.30 | 5 | 30 | 200 | 1.0 | 0.1 | 10.5 | 9.2 | 13.0 |
| BZX84B16 | 2Y5 | 16 | 15.68 | 16.32 | 5 | 40 | 200 | 1.0 | 0.1 | 11.2 | 10.4 | 14.0 |
| BZX84B18 | 2Y6 | 18 | 17.64 | 18.36 | 5 | 45 | 225 | 1.0 | 0.1 | 12.6 | 12.4 | 16.0 |
| BZX84B20 | 2Y7 | 20 | 19.60 | 20.40 | 5 | 55 | 225 | 1.0 | 0.1 | 14.0 | 14.4 | 18.0 |
| BZX84B22 | 2Y8 | 22 | 21.56 | 22.44 | 5 | 55 | 250 | 1.0 | 0.1 | 15.4 | 16.4 | 20.0 |
| BZX84B24 | 2Y9 | 24 | 23.52 | 24.48 | 5 | 70 | 250 | 1.0 | 0.1 | 16.8 | 18.4 | 22.0 |
| BZX84B27 | 2Y10 | 27 | 26.46 | 27.54 | 2 | 80 | 300 | 0.5 | 0.1 | 18.9 | 21.4 | 25.3 |
| BZX84B30 | 2Y11 | 30 | 29.40 | 30.60 | 2 | 80 | 300 | 0.5 | 0.1 | 21.0 | 24.4 | 29.4 |
| BZX84B33 | 2Y12 | 33 | 32.34 | 33.66 | 2 | 80 | 325 | 0.5 | 0.1 | 23.1 | 27.4 | 33.4 |
| BZX84B36 | 2Y13 | 36 | 35.28 | 36.72 | 2 | 90 | 350 | 0.5 | 0.1 | 25.2 | 30.4 | 37.4 |
| BZX84B39 | 2Y14 | 39 | 38.22 | 39.78 | 2 | 130 | 350 | 0.5 | 0.1 | 27.3 | 33.4 | 41.2 |

Notes:

1. Valid provided that device terminals are kept at ambient temperature.

2. Tested with pulses, period=5ms,pulse width =300µs.

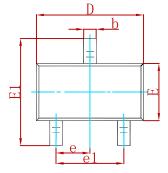
3. f=1kHz.

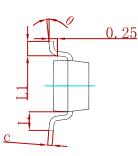


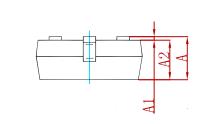
BZX84B2V4-BZX84B39 HF Roms

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PACKAGE MECHANICAL DATA

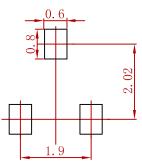






| Cumph of | Dimensions | In Millimeters | Dimensions In Inches | | |
|----------|------------|----------------|----------------------|-------|--|
| Symbol | Min Max | | Min | Max | |
| А | 0.900 | 1.150 | 0.035 | 0.045 | |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 | |
| A2 | 0.900 | 1.050 | 0.035 | 0.041 | |
| b | 0.300 | 0.500 | 0.012 | 0.020 | |
| с | 0.080 | 0.150 | 0.003 | 0.006 | |
| D | 2.800 | 3.000 | 0.110 | 0.118 | |
| E | 1.200 | 1.400 | 0.047 | 0.055 | |
| E1 | 2.250 | 2.550 | 0.089 | 0.100 | |
| е | 0.950 |) TYP | 0.037 TYP | | |
| e1 | 1.800 | 2.000 | 0.071 | 0.079 | |
| L | 0.550 REF | | 0.022 REF | | |
| L1 | 0.300 | 0.500 | 0.012 | 0.020 | |
| θ | 0° | 8° | 0° | 8° | |

Suggested Pad Layout



Note:

Controlling dimension:in millimeters.
General tolerance:± 0.05mm.
The pad layout is for reference purposes only.

REEL SPECIFICATION

| P/N | PKG | QTY |
|--------------------|--------|------|
| BZX84B2V4-BZX84B39 | SOT-23 | 3000 |
| | | |



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