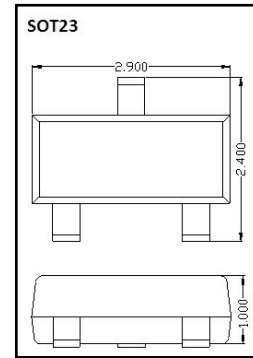
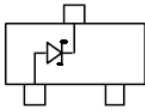


## DATA SHEET

**BZX84C2V4 THRU BZX84C75  
BZX84B4V3 THRU BZX84B75**

- ◇ Planar Die construction
- ◇ 350mW Power Dissipation
- ◇ Zener Voltages from 2.4V–75V
- ◇ RoHS compliant / Green EMC

Pin Configuration - Top View

**MAXIMUM RATINGS (Ta = 25 °C)**

| Symbol                            | Parameter                                      | Value      | Units |
|-----------------------------------|--|------------|-------|
| V <sub>F</sub>                    | Maximum Forward Voltage @ I <sub>F</sub> =10mA | 0.9        | V     |
| P <sub>(AV)</sub>                 | Power Dissipation                              | 350        | mW    |
| T <sub>J</sub> , T <sub>stg</sub> | Operating And Storage Temperature              | -55 to 150 | °C    |
| I <sub>FSM</sub>                  | Peak Forward Surge Current                     | 2.0        | A     |
| T <sub>stg</sub>                  | Storage Temperature Range                      | -55 to 150 | °C    |
| R <sub>j</sub>                    | Thermal Resistance Junction to Ambient         | 357        | °C/W  |

**BZX84C2V4 THRU BZX84C75****ELECTRICAL CHARACTERISTICS (Ta = 25 °C unless otherwise noted)**

| Part Number | Marking | Nominal Zener Voltage                   |      |      | Max. Zener Impedance              |    |                                   |    | Max.Reverse Leakage Current     |     |
|-------------|---------|---|------|------|-----------------------------------|----|-----------------------------------|----|---------------------------------|-----|
|             |         | V <sub>Z</sub> (V) @ I <sub>ZT</sub> *1 |      |      | Z <sub>ZT</sub> @ I <sub>ZT</sub> |    | Z <sub>ZK</sub> @ I <sub>ZK</sub> |    | I <sub>R</sub> @ V <sub>R</sub> |     |
|             |         | Nom.                                    | Min. | Max. | Ohm                               | mA | Ohm                               | mA | µA                              | V   |
| BZX84C2V4   | W1/Z11  | 2.4                                     | 2.28 | 2.52 | 100                               | 5  | 600                               | 1  | 50                              | 1.0 |
| BZX84C2V7   | W2/Z12  | 2.7                                     | 2.5  | 2.9  | 100                               | 5  | 600                               | 1  | 20                              | 1.0 |
| BZX84C3V0   | W3/Z13  | 3                                       | 2.8  | 3.2  | 95                                | 5  | 600                               | 1  | 10                              | 1.0 |
| BZX84C3V3   | W4/Z14  | 3.3                                     | 3.1  | 3.5  | 95                                | 5  | 600                               | 1  | 5                               | 1.0 |
| BZX84C3V6   | W5/Z15  | 3.6                                     | 3.4  | 3.8  | 90                                | 5  | 600                               | 1  | 5                               | 1.0 |
| BZX84C3V9   | W6/Z16  | 3.9                                     | 3.7  | 4.1  | 90                                | 5  | 600                               | 1  | 3                               | 1.0 |
| BZX84C4V3   | W7/Z17  | 4.3                                     | 4    | 4.6  | 90                                | 5  | 600                               | 1  | 3                               | 1.0 |

|           |         |     |       |       |     |   |      |      |      |       |
|-----------|---------|-----|-------|-------|-----|---|------|------|------|-------|
| BZX84C4V7 | W8/Z1   | 4.7 | 4.4   | 5     | 80  | 5 | 500  | 1    | 3    | 2.0   |
| BZX84C5V1 | W9/Z2   | 5.1 | 4.8   | 5.4   | 60  | 5 | 480  | 1    | 2    | 2.0   |
| BZX84C5V6 | WA/Z3   | 5.6 | 5.2   | 6     | 40  | 5 | 400  | 1    | 1    | 2.0   |
| BZX84C6V2 | WB/Z4   | 6.2 | 5.8   | 6.6   | 10  | 5 | 150  | 1    | 3    | 4.0   |
| BZX84C6V8 | WC/Z5   | 6.8 | 6.4   | 7.2   | 15  | 5 | 80   | 1    | 2    | 4.0   |
| BZX84C7V5 | WD/Z6   | 7.5 | 7     | 7.9   | 15  | 5 | 80   | 1    | 1    | 5.0   |
| BZX84C8V2 | WE/Z7   | 8.2 | 7.7   | 8.7   | 15  | 5 | 80   | 1    | 0.7  | 5.0   |
| BZX84C9V1 | WF/Z8   | 9.1 | 8.5   | 9.6   | 15  | 5 | 100  | 1    | 0.5  | 6.0   |
| BZX84C10  | WG/Z9   | 10  | 9.4   | 10.6  | 20  | 5 | 150  | 1    | 0.2  | 7.0   |
| BZX84C11  | WH/Y1   | 11  | 10.4  | 11.6  | 20  | 5 | 150  | 1    | 0.1  | 8.0   |
| BZX84C12  | WI/Y2   | 12  | 11.4  | 12.7  | 25  | 5 | 150  | 1    | 0.1  | 8.0   |
| BZX84C13  | WK/Y3   | 13  | 12.4  | 14.1  | 30  | 5 | 170  | 1    | 0.1  | 8.0   |
| BZX84C15  | WL/Y4   | 15  | 13.8  | 15.6  | 30  | 5 | 200  | 1    | 0.1  | 10.5  |
| BZX84C16  | WM /Y5  | 16  | 15.3  | 17.1  | 40  | 5 | 200  | 1    | 0.1  | 11.2  |
| BZX84C18  | WN/Y6   | 18  | 16.8  | 19.1  | 45  | 5 | 225  | 1    | 0.1  | 12.6  |
| BZX84C20  | WO/Y7   | 20  | 18.8  | 21.2  | 55  | 5 | 225  | 1    | 0.1  | 14.0  |
| BZX84C22  | WP/Y8   | 22  | 20.8  | 23.3  | 55  | 5 | 250  | 1    | 0.1  | 15.4  |
| BZX84C24  | WR/Y9   | 24  | 22.8  | 25.6  | 70  | 5 | 250  | 1    | 0.1  | 16.8  |
| BZX84C27  | WS/Y10  | 27  | 25.1  | 28.9  | 80  | 2 | 300  | 1    | 0.1  | 18.9  |
| BZX84C30  | WT /Y11 | 30  | 28    | 32    | 80  | 2 | 300  | 1    | 0.1  | 21.0  |
| BZX84C33  | WU/Y12  | 33  | 31    | 35    | 80  | 2 | 325  | 1    | 0.1  | 23.1  |
| BZX84C36  | WW/Y13  | 36  | 34    | 38    | 90  | 2 | 350  | 1    | 0.1  | 25.2  |
| BZX84C39  | WX/Y14  | 39  | 37    | 41    | 130 | 2 | 350  | 1    | 0.1  | 27.3  |
| BZX84C43  | WY/Y15  | 43  | 40.85 | 45.15 | 150 | 5 | 375  | 1    | 0.1  | 30.10 |
| BZX84C47  | WZ/Y16  | 47  | 44.65 | 49.35 | 170 | 5 | 375  | 1    | 0.1  | 32.90 |
| BZX84C51  | XA/Y17  | 51  | 48.45 | 53.55 | 100 | 5 | 400  | 1    | 0.1  | 35.70 |
| BZX84C62  | Y19     | 62  | 58.0  | 66.0  | 215 | 2 | 450  | 0.5  | 0.05 | 43.40 |
| BZX84C68  | Y20     | 68  | 64.60 | 71.40 | 240 | 2 | 1600 | 0.25 | 0.1  | 52    |
| BZX84C75  | Y21     | 75  | 71.25 | 78.75 | 265 | 2 | 1700 | 0.25 | 0.1  | 56    |

\*1 Pulse width = 10 ms

**BZX84B4V3 thru BZX84B75****ELECTRICAL CHARACTERISTICS (Ta = 25 °C unless otherwise noted)**

| Part Number | Marking | Nominal Zener Voltage |       |       | Max. Zener Impedance |    |           |    | Max.Reverse Leakage Current |      |
|-------------|---------|-----------------------|-------|-------|----------------------|----|-----------|----|-----------------------------|------|
|             |         | Vz(V) @ IzT *1        |       |       | ZzT @ IzT            |    | Zzk @ Izk |    | IR @ VR                     |      |
|             |         | Nom.                  | Min.  | Max.  | Ohm                  | mA | Ohm       | mA | µA                          | V    |
| BZX84B4V3   | W7      | 4.3                   | 4.21  | 4.39  | 90                   | 5  | 600       | 1  | 3.0                         | 1.0  |
| BZX84B4V7   | W8/Z1   | 4.7                   | 4.61  | 4.79  | 80                   | 5  | 500       | 1  | 3.0                         | 2.0  |
| BZX84B5V1   | W9/Z2   | 5.1                   | 5.00  | 5.20  | 60                   | 5  | 480       | 1  | 2.0                         | 2.0  |
| BZX84B5V6   | WA/Z3   | 5.6                   | 5.49  | 5.71  | 40                   | 5  | 400       | 1  | 1.0                         | 2.0  |
| BZX84B6V2   | WB/Z4   | 6.2                   | 6.08  | 6.32  | 10                   | 5  | 150       | 1  | 3.0                         | 4.0  |
| BZX84B6V8   | WC/Z5   | 6.8                   | 6.66  | 6.94  | 15                   | 5  | 80        | 1  | 2.0                         | 4.0  |
| BZX84B7V5   | WD/Z6   | 7.5                   | 7.35  | 7.65  | 15                   | 5  | 80        | 1  | 1.0                         | 5.0  |
| BZX84B8V2   | WE/Z7   | 8.2                   | 8.04  | 8.36  | 15                   | 5  | 80        | 1  | 0.7                         | 5.0  |
| BZX84B9V1   | WF/Z8   | 9.1                   | 8.92  | 9.28  | 15                   | 5  | 100       | 1  | 0.5                         | 6.0  |
| BZX84B10    | WG/Z9   | 10                    | 9.80  | 10.20 | 20                   | 5  | 150       | 1  | 0.2                         | 7.0  |
| BZX84B11    | WH/2Y1  | 11                    | 10.78 | 11.22 | 20                   | 5  | 150       | 1  | 0.1                         | 8.0  |
| BZX84B12    | WI/2Y2  | 12                    | 11.76 | 12.24 | 25                   | 5  | 150       | 1  | 0.1                         | 8.0  |
| BZX84B13    | WK/2Y3  | 13                    | 12.74 | 13.26 | 30                   | 5  | 170       | 1  | 0.1                         | 8.0  |
| BZX84B15    | WL/2Y4  | 15                    | 14.70 | 15.30 | 30                   | 5  | 200       | 1  | 0.1                         | 10.5 |
| BZX84B16    | WM/2Y5  | 16                    | 15.68 | 16.32 | 40                   | 5  | 200       | 1  | 0.1                         | 11.2 |
| BZX84B18    | WN/2Y6  | 18                    | 17.64 | 18.36 | 45                   | 5  | 225       | 1  | 0.1                         | 12.6 |
| BZX84B20    | WO/2Y7  | 20                    | 19.60 | 20.40 | 55                   | 5  | 225       | 1  | 0.1                         | 14.0 |
| BZX84B22    | WP/Y8   | 22                    | 21.56 | 22.44 | 55                   | 5  | 250       | 1  | 0.1                         | 15.4 |
| BZX84B24    | WR/Y9   | 24                    | 23.52 | 24.48 | 70                   | 5  | 250       | 1  | 0.1                         | 16.8 |
| BZX84B27    | WS/Y10  | 27                    | 26.46 | 27.54 | 80                   | 5  | 300       | 1  | 0.1                         | 18.9 |
| BZX84B30    | WT /Y11 | 30                    | 29.40 | 30.60 | 80                   | 5  | 300       | 1  | 0.1                         | 21.0 |
| BZX84B33    | WU/Y12  | 33                    | 32.34 | 33.66 | 80                   | 5  | 325       | 1  | 0.1                         | 23.1 |
| BZX84B36    | WW/Y13  | 36                    | 35.28 | 36.72 | 90                   | 5  | 350       | 1  | 0.1                         | 25.2 |
| BZX84B39    | WX/Y14  | 39                    | 38.22 | 39.78 | 130                  | 5  | 350       | 1  | 0.1                         | 27.3 |
| BZX84B43    | WY      | 43                    | 42.14 | 43.86 | 150                  | 5  | 375       | 1  | 0.1                         | 30.1 |

|          |    |    |       |       |     |   |      |      |     |      |
|----------|----|----|-------|-------|-----|---|------|------|-----|------|
| BZX84B47 | WZ | 47 | 46.06 | 47.94 | 170 | 5 | 375  | 1    | 0.1 | 32.9 |
| BZX84B51 | XA | 51 | 49.98 | 52.02 | 100 | 5 | 750  | 1    | 0.1 | 38.0 |
| BZX84B56 | XB | 56 | 54.60 | 57.40 | 200 | 2 | 1400 | 0.25 | 0.1 | 43.0 |
| BZX84B62 | XC | 62 | 60.45 | 63.55 | 225 | 2 | 1400 | 0.25 | 0.1 | 47.0 |
| BZX84B68 | XD | 68 | 66.30 | 69.70 | 240 | 2 | 1600 | 0.25 | 0.1 | 52   |
| BZX84B75 | XE | 75 | 73.13 | 76.87 | 265 | 2 | 1700 | 0.25 | 0.1 | 56   |

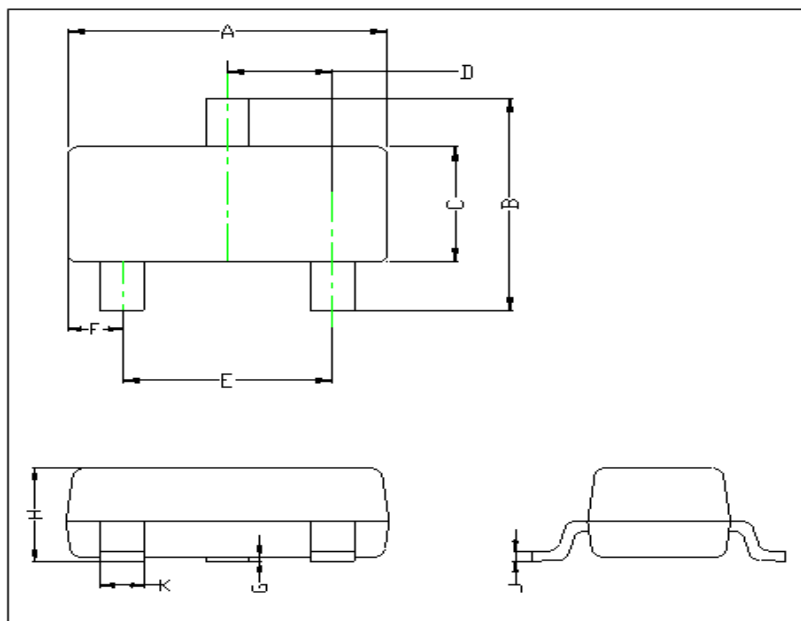
\*1 Pulse width = 10 ms

## ORDERING INFORMATION

| Device                 | Package | Shipping                        | Tape wide | Emboss pitch | Tape specification | Notes |
|------------------------|---------|---------------------------------|-----------|--------------|--------------------|-------|
| BZX84C2V4-<br>BZX84B75 | SOT23   | Tape & Reel<br>3000pcs /7" Reel | 8mm       | 4mm          | Conductive         |       |

## PACKAGE DIMENSIONS

## Package Outline : SOT23



SOT23 Package Outline

| Symbol | Dimensions in mm |       |
|--------|------------------|-------|
|        | Min.             | Max.  |
| A      | 2.800            | 3.040 |
| B      | 2.100            | 2.640 |
| C      | 1.200            | 1.400 |
| D      | 0.890            | 1.030 |
| E      | 1.780            | 2.050 |
| F      | 0.450            | 0.600 |
| G      | 0.013            | 0.100 |
| H      | 0.900            | 1.110 |
| J      | 0.090            | 0.180 |
| K      | 0.370            | 0.510 |

## Note:

1. Halogen free ,EMC
2. Pb free solder
3. Lead thickness solder plating
4. Lead frame CAC-5
5. Other Tolerance  $\pm 0.05$
6. Dimensions are exclusive of Burrs Mold Flash and Tie Bar extrusions
7. Unit : mm

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