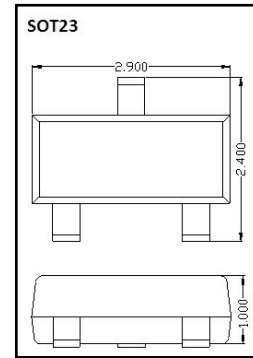
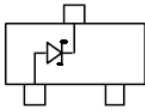


## DATA SHEET

**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

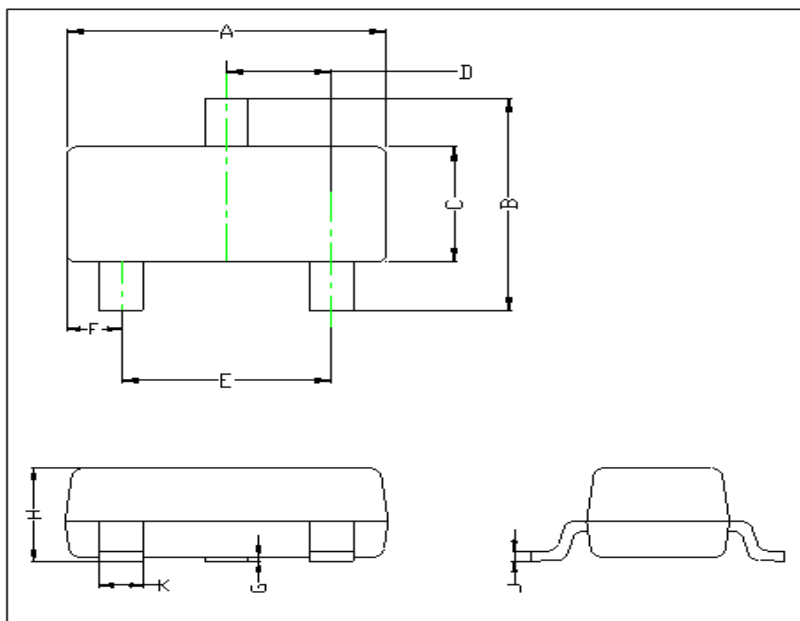
\*1 Pulse width = 10 ms

## ORDERING INFORMATION

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
BZX84C2V4- BZX84B75	SOT23	Tape & Reel 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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