



# BZX84B4V3 SERIES

## SURFACE MOUNT SILICON ZENER DIODES

**VOLTAGE** 4.3 to 51 Volts **POWER** 410 mWatts

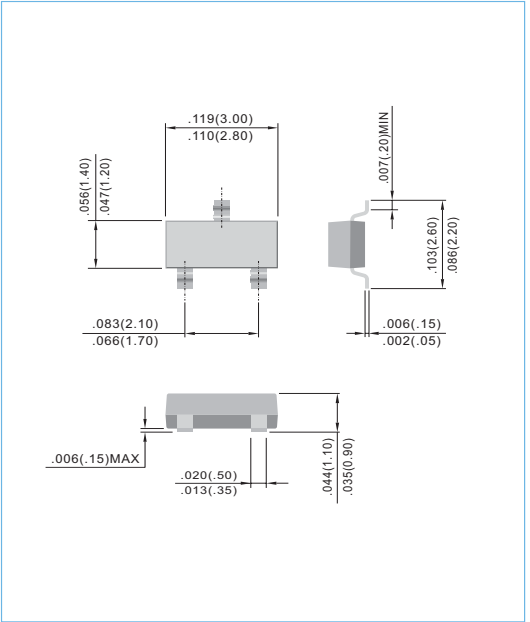
**SOT-23** Unit: inch (mm)

### FEATURES

- Planar Die construction
- 410mW Power Dissipation
- Zener Voltages from 4.3~51V
- Ideally Suited for Automated Assembly Processes
- Pb free product : 99% Sn above can meet RoHS environment substance directive request

### MECHANICAL DATA

- Case: SOT-23, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: See Diagram Below
- Approx. Weight: 0.008 grams
- Mounting Position: Any



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Maximum Power Dissipation (Notes A) at 25°C	P <sub>D</sub>	410	mW
Operating Junction and Storage Temperature Range	T <sub>J</sub>	-50 to +150	°C

**NOTES:**

A. Mounted on 5.0mm<sup>2</sup>(.013mm thick) land areas.



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Part Number	Nominal Zener Voltage			Max. Zener Impedance				Max Reverse Leakage Current		Marking Code	Package
	V <sub>Z</sub> @ I <sub>ZT</sub>			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. V	Min. V	Max. V	Ω	mA	Ω	mA	μA	V		
BZX84B4V3	4.3	4.21	4.39	90	5.0	600	1.00	3.0	1.0	W7	SOT-23
BZX84B4V7	4.7	4.61	4.79	80	5.0	500	1.00	3.0	2.0	W8	SOT-23
BZX84B5V1	5.1	5.00	5.20	60	5.0	480	1.00	2.0	2.0	W9	SOT-23
BZX84B5V6	5.6	5.49	5.71	40	5.0	400	1.00	1.0	2.0	WA	SOT-23
BZX84B6V2	6.2	6.08	6.32	10	5.0	150	1.00	3.0	4.0	WB	SOT-23
BZX84B6V8	6.8	6.66	6.94	15	5.0	80	1.00	2.0	4.0	WC	SOT-23
BZX84B7V5	7.5	7.35	7.65	15	5.0	80	1.00	1.0	5.0	WD	SOT-23
BZX84B8V2	8.2	8.04	8.36	15	5.0	80	1.00	0.7	5.0	WE	SOT-23
BZX84B9V1	9.1	8.92	9.28	15	5.0	100	1.00	0.5	6.0	WF	SOT-23
BZX84B10	10	9.80	10.20	20	5.0	150	1.00	0.2	7.0	WG	SOT-23
BZX84B11	11	10.78	11.22	20	5.0	150	1.00	0.1	8.0	WH	SOT-23
BZX84B12	12	11.76	12.24	25	5.0	150	1.00	0.1	8.0	WI	SOT-23
BZX84B13	13	12.74	13.26	30	5.0	170	1.00	0.1	8.0	WK	SOT-23
BZX84B14	14	13.72	14.28	30	5.0	170	1.00	0.1	10.0	WJ	SOT-23
BZX84B15	15	14.70	15.30	30	5.0	200	1.00	0.1	10.5	WL	SOT-23
BZX84B16	16	15.68	16.32	40	5.0	200	1.00	0.1	11.2	WM	SOT-23
BZX84B17	17	16.66	17.34	40	5.0	200	1.00	0.1	12.2	17C	SOT-23
BZX84B18	18	17.64	18.36	45	5.0	225	1.00	0.1	12.6	WN	SOT-23
BZX84B20	20	19.60	20.40	55	5.0	225	1.00	0.1	14.0	WO	SOT-23
BZX84B22	22	21.56	22.44	55	5.0	250	1.00	0.1	15.4	WP	SOT-23
BZX84B24	24	23.52	24.48	70	5.0	250	1.00	0.1	16.8	WR	SOT-23
BZX84B27	27	26.46	27.54	80	5.0	300	1.00	0.1	18.90	WS	SOT-23
BZX84B28	28	27.44	28.56	80	5.0	300	1.00	0.1	20.50	28C	SOT-23
BZX84B30	30	29.40	30.60	80	5.0	300	1.00	0.1	21.00	WT	SOT-23
BZX84B33	33	32.34	33.66	80	5.0	325	1.00	0.1	23.10	WU	SOT-23
BZX84B36	36	35.28	36.72	90	5.0	350	1.00	0.1	25.20	WW	SOT-23
BZX84B39	39	38.22	39.78	130	5.0	350	1.00	0.1	27.30	WX	SOT-23
BZX84B43	43	42.14	43.86	150	5.0	375	1.00	0.1	30.10	WY	SOT-23
BZX84B47	47	46.06	47.94	170	5.0	375	1.00	0.1	32.90	WZ	SOT-23
BZX84B51	51	49.98	52.02	100	5.0	750	1.00	0.1	38.00	XA	SOT-23



# BZX84B4V3 SERIES

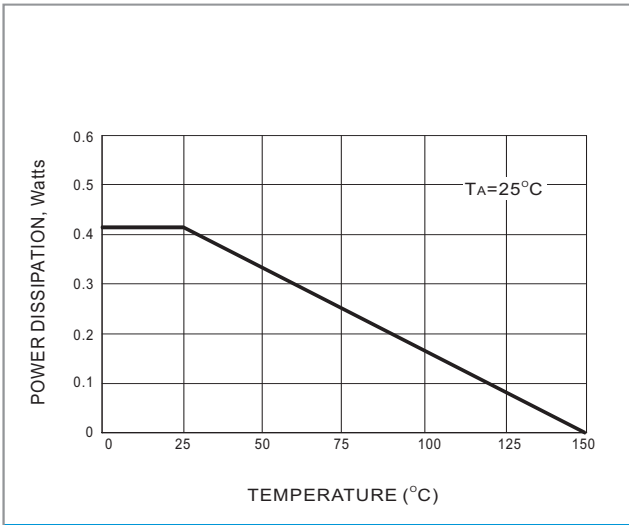


Fig. 1 STEADY STATE POWER DERATING

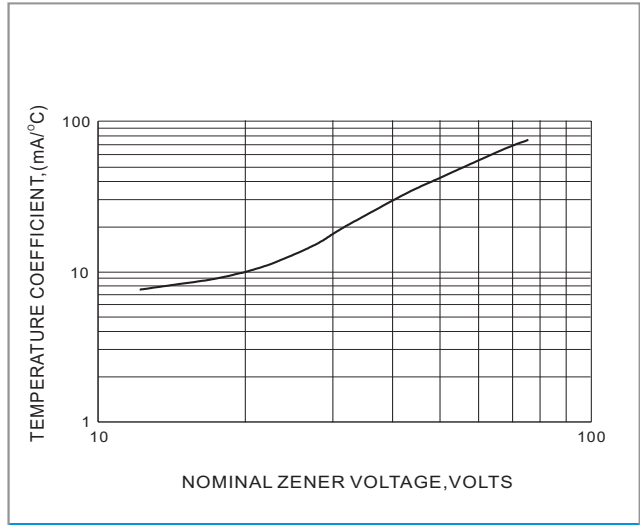


Fig. 2 TEMPERATURE COEFFICIENTS

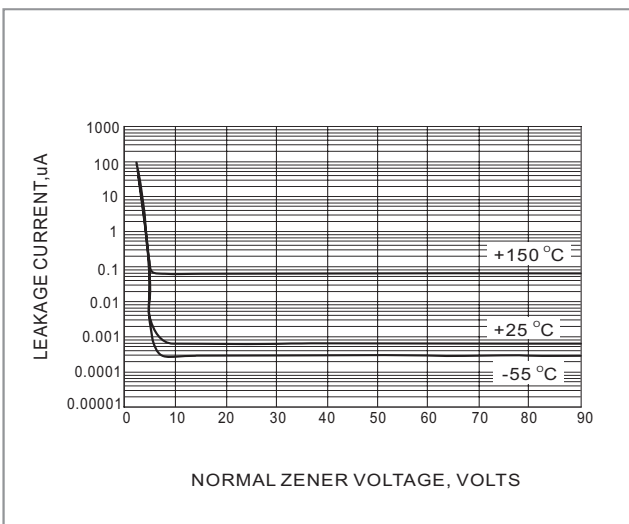


Fig. 3 TYPICAL LEAKAGE CURRENT

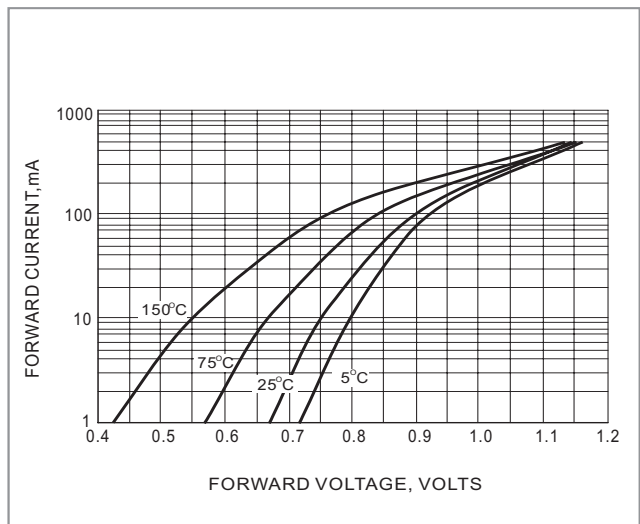
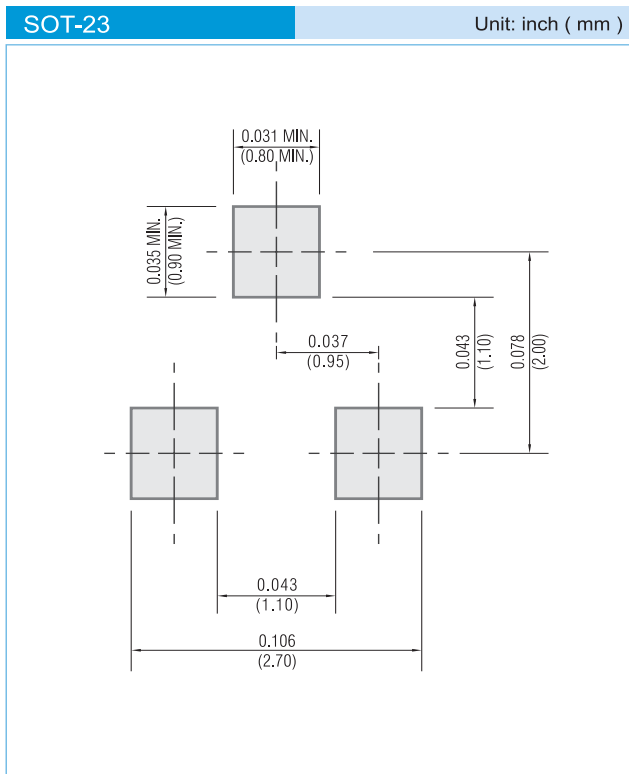


Fig. 4 TYPICAL FORWARD VOLTAGE



## BZX84B4V3 SERIES

### MOUNTING PAD LAYOUT



### ORDER INFORMATION

- Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

### LEGAL STATEMENT

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