



BZX84B4V3 SERIES

SURFACE MOUNT SILICON ZENER DIODES

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

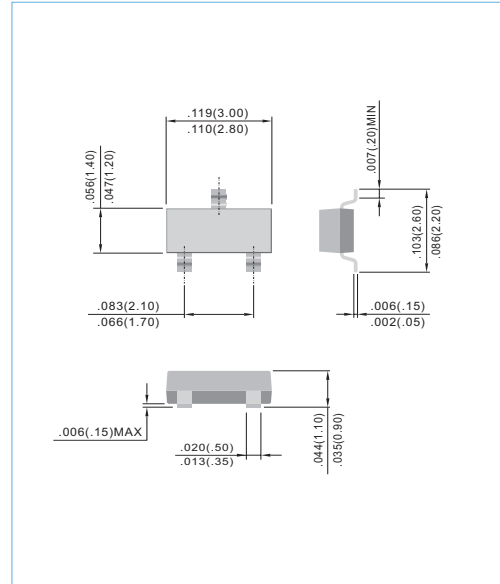
SOT-23 Unit: inch (mm)

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 _D	410	mW
Operating Junction and Storage Temperature Range	T _J	-50 to +150	°C

NOTES:

A. Mounted on 5.0mm²(.013mm thick) land areas.



BZX84B4V3 SERIES

Part Number	Nominal Zener Voltage			Max. Zener Impedance				Max Reverse Leakage Current		Marking Code	Package
	V _Z @ I _{ZT}			Z _{zT} @ I _{ZT}		Z _{zK} @ I _{zK}		I _R @ V _R			
	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

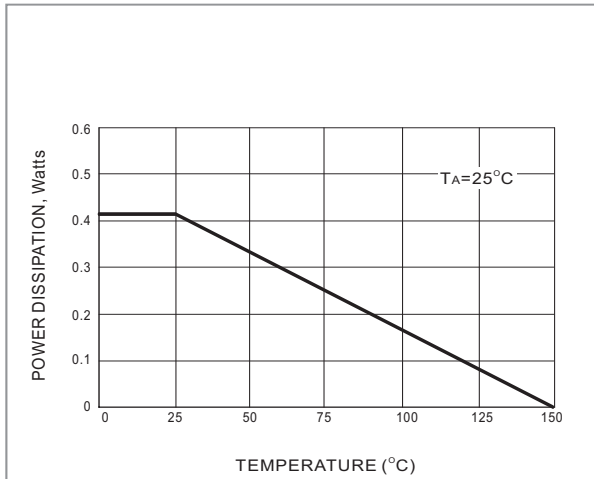


Fig.1 STEADY STATE POWER DERATING

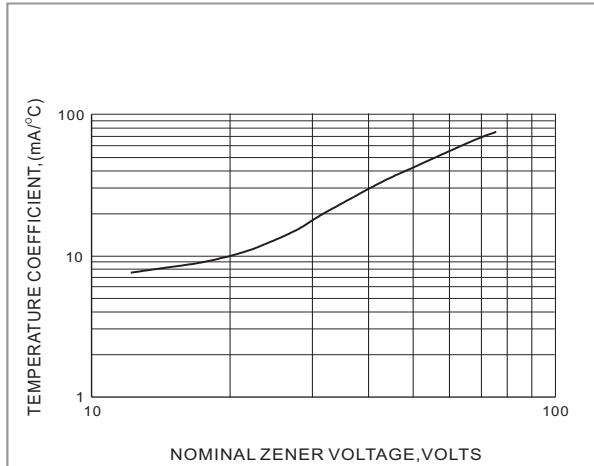


Fig.2 TEMPERATURE COEFFICENTS

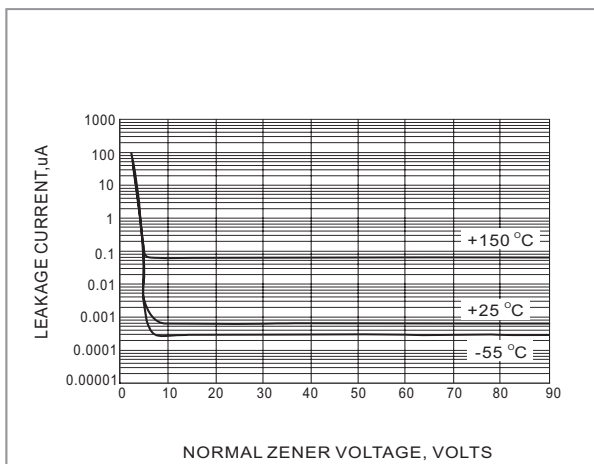


Fig.3 TYPICAL LEAKAGE CURRENT

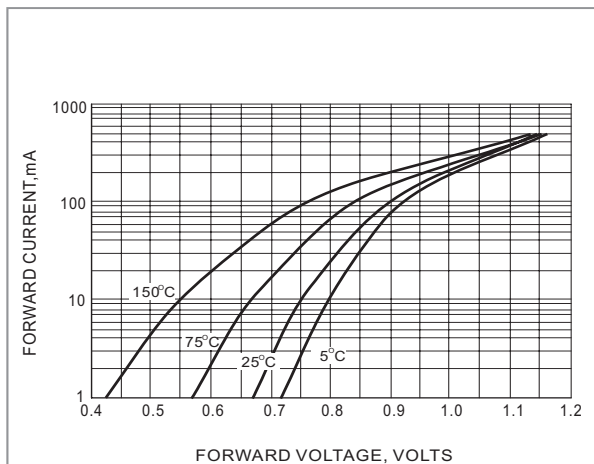
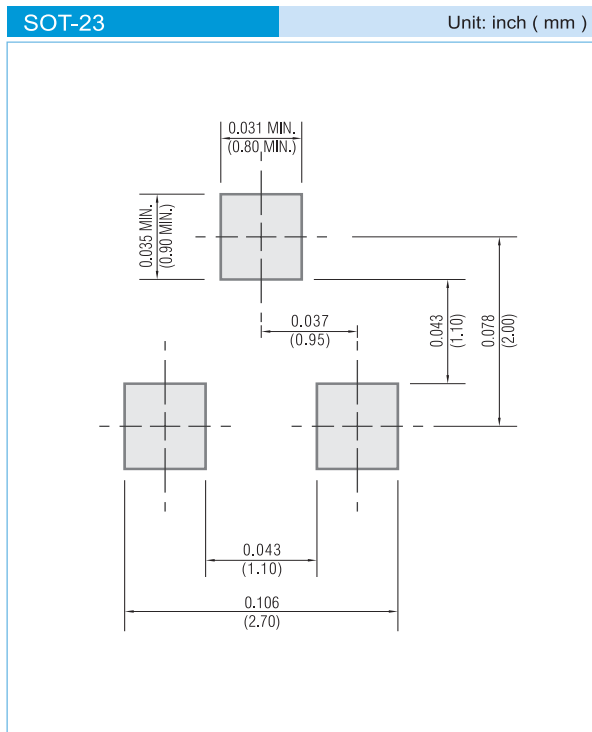


Fig.4 TYPICAL FORWARD VOLTAGE



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

Copyright PanJit International, Inc 2006

The information presented in this document is believed to be accurate and reliable. The specifications and information herein are subject to change without notice. Pan Jit makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose. Pan Jit products are not authorized for use in life support devices or systems. Pan Jit does not convey any license under its patent rights or rights of others.