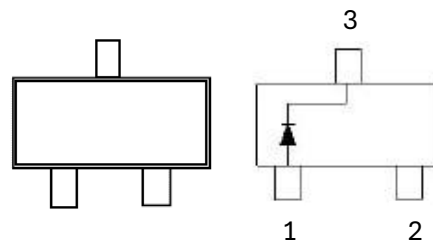


FEATURES AND BENEFITS

Product Summary		
P_D	350mW	@25 °C
V_Z	2.4 – 75V	@25 °C
V_F	0.9V	@ $I_F=10mA$

- Planar Die construction
- Wide Voltage Range Selection 2.4V to 75V
- RoHS Compliant / Green EMC UL Flammability Classification Rating 94V-0
- Matte Tin (Sn) Lead finish Solderable per MIL-STD-202, Method 208
- Moisture Sensitivity: Level 1 per J-STD-020
- Weight: 0.008 grams (Approximate)

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Maximum Ratings (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Power Dissipation	P_{TM}	350	mW
Forward Voltage @ $I_F=10mA$	V_F	0.9	V
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55 to +150	°C

THERMAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Thermal Resistance from Junction to Ambient*	$R_{\theta JA}$	357	°C/W

* Device mounted on 1"x1" FR4 PCB

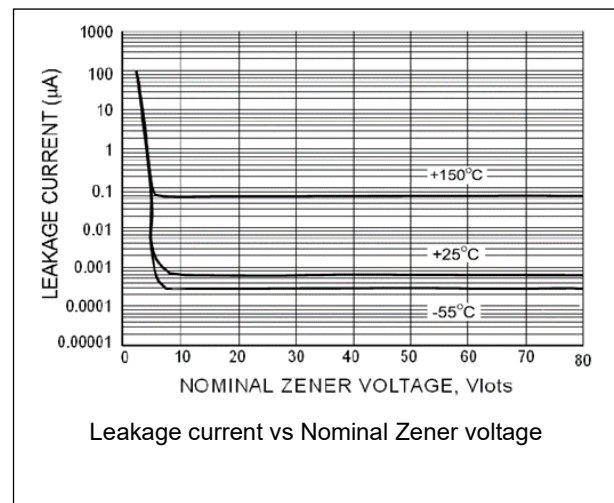
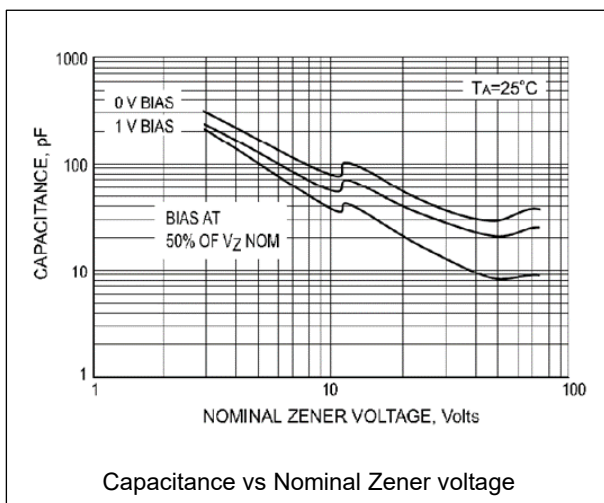
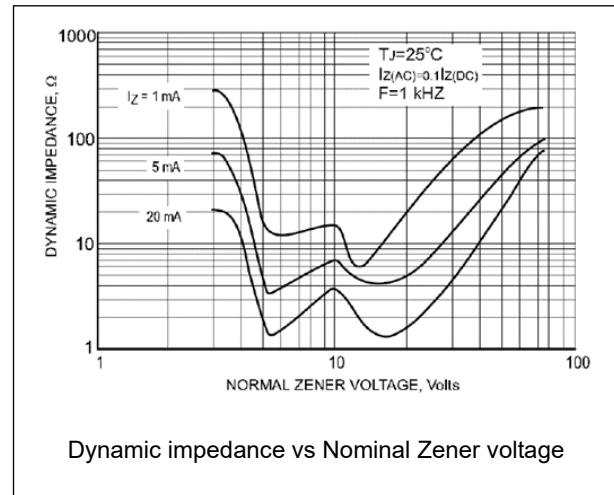
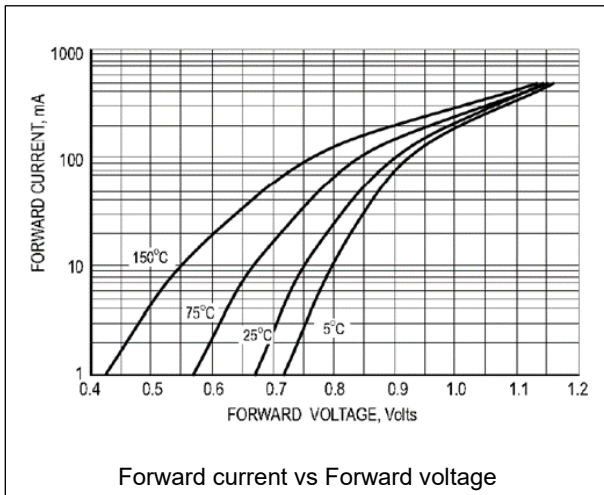
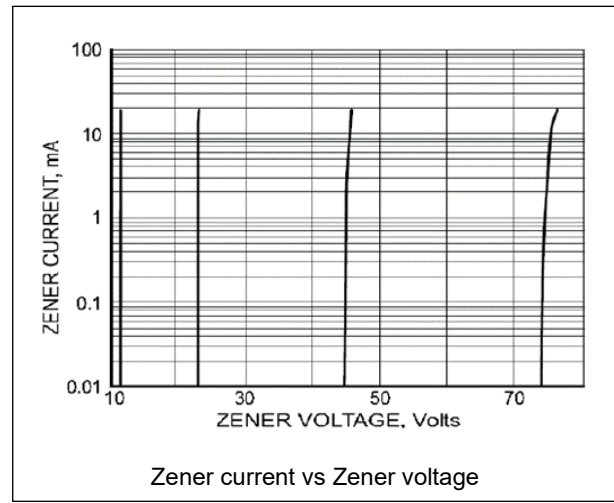
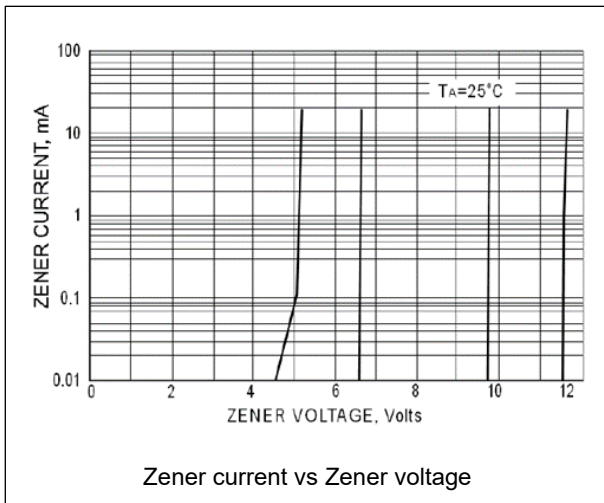
ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)

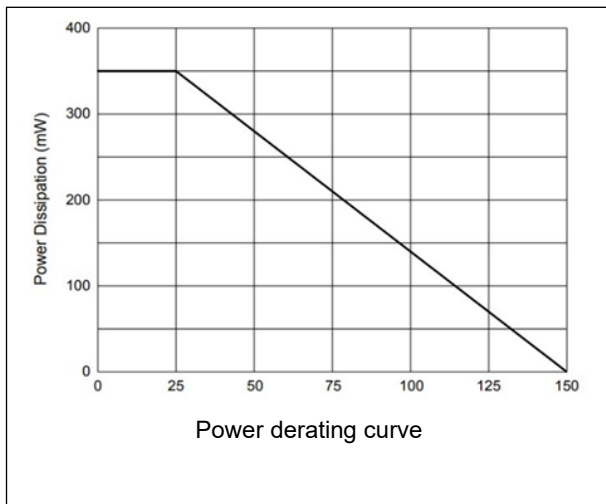
*1 Pulse width = 10 ms

Type Number	Device Marking	Nominal Zener Voltage			Maximum Zener Impedance				Max. Reverse Leakage Current	
		$V_Z(V) @ I_{ZT}^{*1}$			$Z_{ZT} @ I_{ZT}$		$Z_{Zk} @ I_{Zk}$		$I_R @ V_R$	
		Min.	Nom.	Max.	mA	Ohm	mA	Ohm	uA	V
BZX84B2V4	W1	2.35	2.4	2.45	5	100	1	600	50	1
BZX84B2V7	W2	2.65	2.7	2.75	5	100	1	600	20	1
BZX84B3V0	W3	2.94	3	3.06	5	95	1	600	10	1
BZX84B3V3	W4	3.23	3.3	3.37	5	95	1	600	5	1

Type Number	Device Marking	Nominal Zener Voltage			Maximum Zener Impedance				Max. Reverse Leakage Current	
		V _Z (V) @ I _{ZT} *1			Z _{YT} @ I _{ZT}		Z _{ZK} @ I _{ZK}		I _R @ V _R	
		Min.	Nom.	Max.	mA	Ohm	mA	Ohm	uA	V
BZX84B3V6	W5	3.53	3.6	3.67	5	90	1	600	5	1
BZX84B3V9	W6	3.82	3.9	3.98	5	90	1	600	3	1
BZX84B4V3	W7	4.21	4.3	4.39	5	90	1	600	3	1
BZX84B4V7	Z1	4.61	4.7	4.79	5	80	1	500	3	2
BZX84B5V1	2Z2	5	5.1	5.2	5	60	1	480	2	2
BZX84B5V6	2Z3	5.49	5.6	5.71	5	40	1	400	1	2
BZX84B6V2	2Z4	6.08	6.2	6.32	5	10	1	150	3	4
BZX84B6V8	2Z5	6.66	6.8	6.94	5	15	1	80	2	4
BZX84B7V5	2Z6	7.35	7.5	7.65	5	15	1	80	1	5
BZX84B8V2	2Z7	8.04	8.2	8.36	5	15	1	80	0.7	5
BZX84B9V1	2Z8	8.92	9.1	9.28	5	15	1	100	0.5	6
BZX84B10	2Z9	9.8	10	10.2	5	20	1	150	0.2	7
BZX84B11	WH	10.78	11	11.22	5	20	1	150	0.1	8
BZX84B12	2Y2	11.76	12	12.24	5	25	1	150	0.1	8
BZX84B13	2Y3	12.74	13	13.26	5	30	1	170	0.1	8
BZX84B14	2WY4	13.72	14	14.28	5	25	1	110	0.1	10.5
BZX84B15	2Y4	14.7	15	15.3	5	30	1	200	0.1	10.5
BZX84B16	2Y5	15.68	16	16.32	5	40	1	200	0.1	11.2
BZX84B18	2Y6	17.64	18	18.36	5	45	1	225	0.1	12.6
BZX84B20	WO	19.6	20	20.4	5	55	1	225	0.1	14
BZX84B22	WP	21.56	22	22.44	5	55	1	250	0.1	15.4
BZX84B24	Y9	23.52	24	24.48	5	70	1	250	0.1	16.8
BZX84B27	Y10	26.46	27	27.54	2	80	0.5	300	0.1	18.9
BZX84B30	WT	29.4	30	30.6	2	80	0.5	300	0.1	21
BZX84B33	WU	32.34	33	33.66	2	80	0.5	325	0.1	23.1
BZX84B36	Y13	35.28	36	36.72	2	90	0.5	350	0.1	25.2
BZX84B39	Y14	38.22	39	39.78	2	130	0.5	350	0.1	27.3
BZX84B43	WY	42.14	43	43.86	2	150	0.5	375	0.1	30.1
BZX84B47	WZ	45.83	47	48.17	2	170	0.5	375	0.1	32.9
BZX84B51	XA	49.73	51	52.27	2	180	0.5	400	0.1	35.7
BZX84B56	XB	54.6	56	57.4	2	200	0.5	425	0.05	39.2
BZX84B62	XC	60.45	62	63.55	2	215	0.5	450	0.05	43.4
BZX84B68	XD	66.3	68	69.7	2	240	0.5	475	0.05	47.6
BZX84B75	XE	73.13	75	76.87	2	255	0.5	500	0.05	52.5

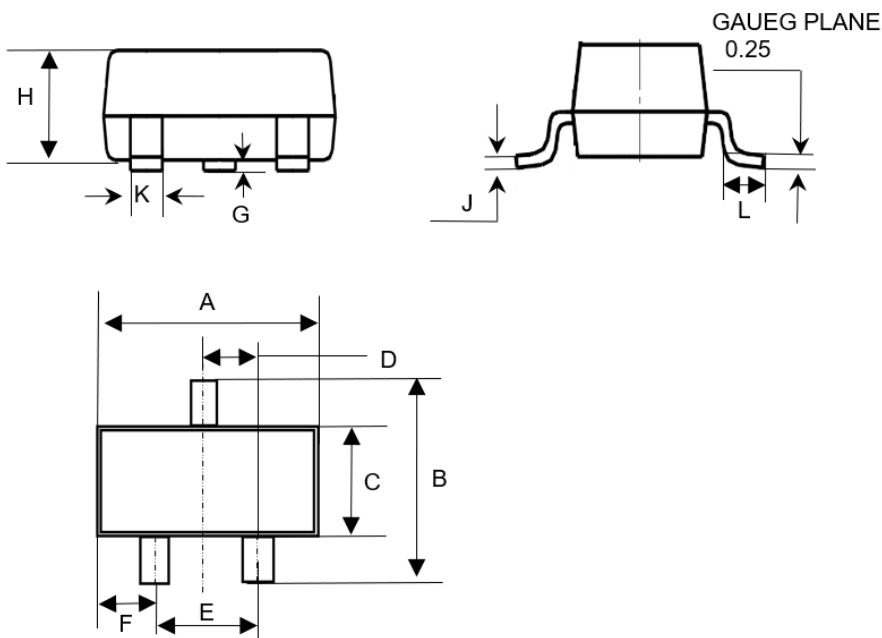
RATING AND CHARACTERISTICS CURVES





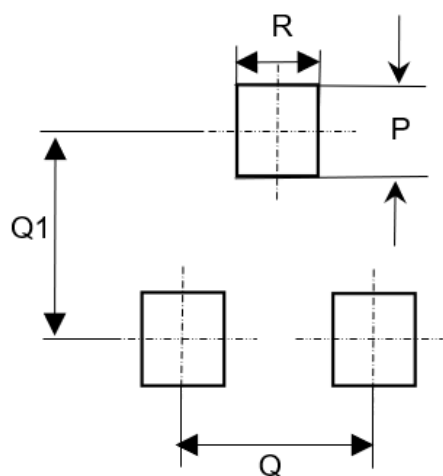
PACKAGE OUTLINE DIMENSIONS

SOT-23



Symbol	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	0.085	0.180
K	0.370	0.510
L	0.300	0.500
Unit: mm		

SUGGESTED PAD LAYOUT

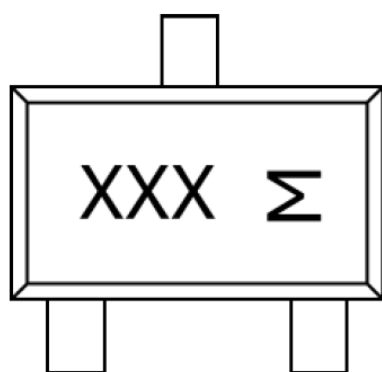


Symbol	Type
Q	1.900
Q1	2.000
P	0.900
R	0.800
Unit: mm	

Land Pattern Recommendation

DEVICE MARKING CODE AND ORDERING INFORMATION

DEVICE	Marking	Quantity	Packing
BZX84B series	Refer to Device Marking	3000/7"Reel	Tape & Reel



XXX: Product Marking Code

Σ : Date Code (Rotate 90° counterclockwise)

Odd Year	Even Year
1	E
2	F
3	H
4	J
5	K
6	L
7	N
8	P
9	U
T	X
V	Y
C	Z

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