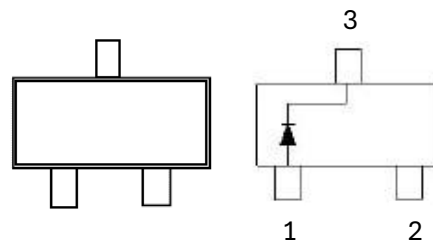


FEATURES AND BENEFITS

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

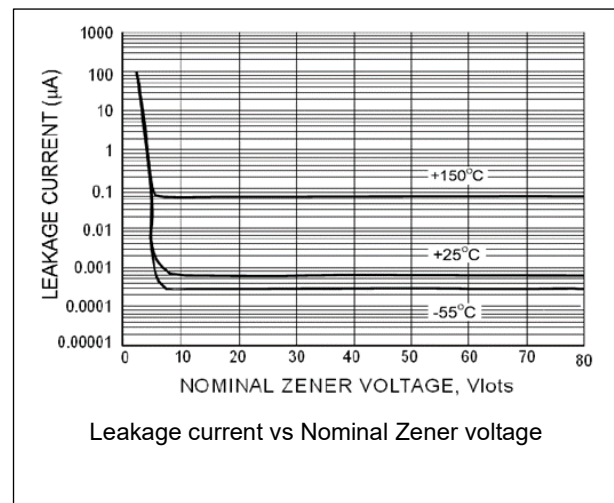
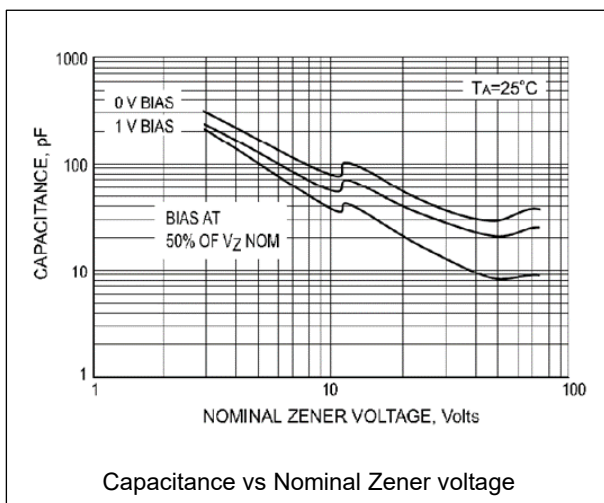
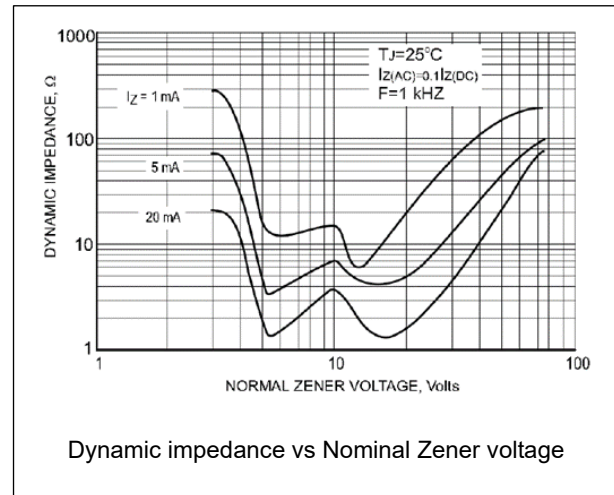
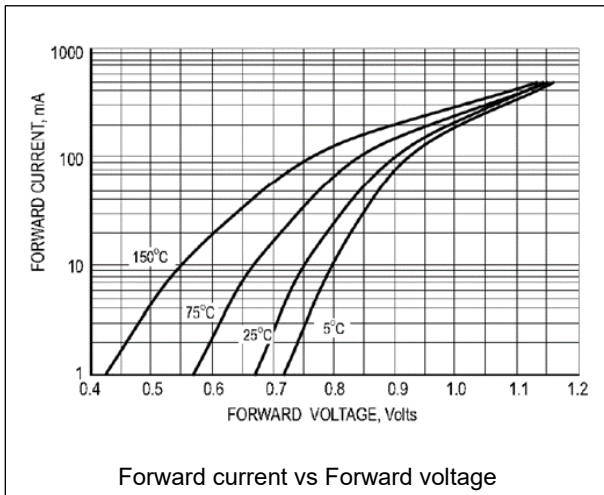
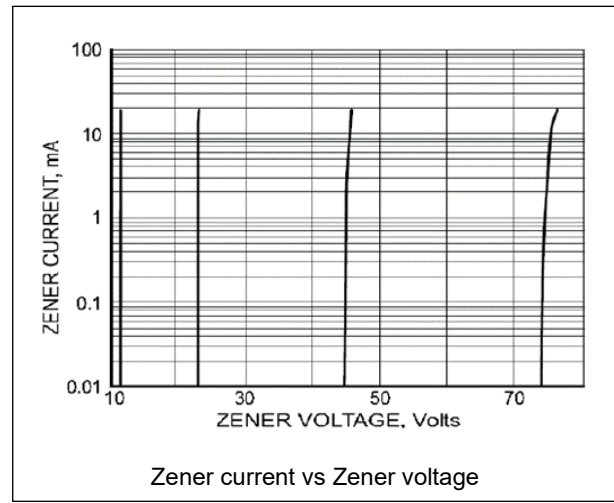
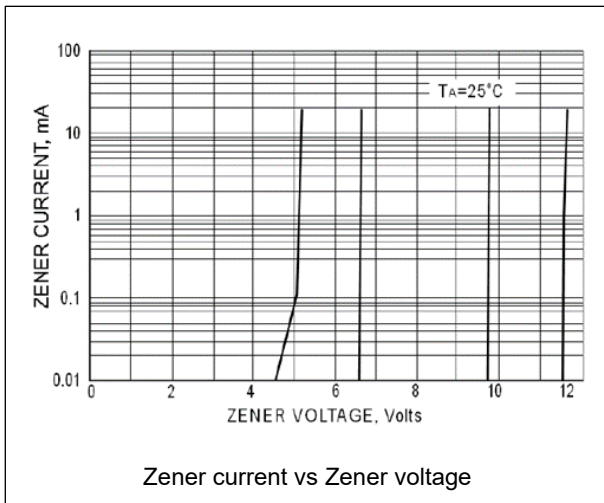
ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)

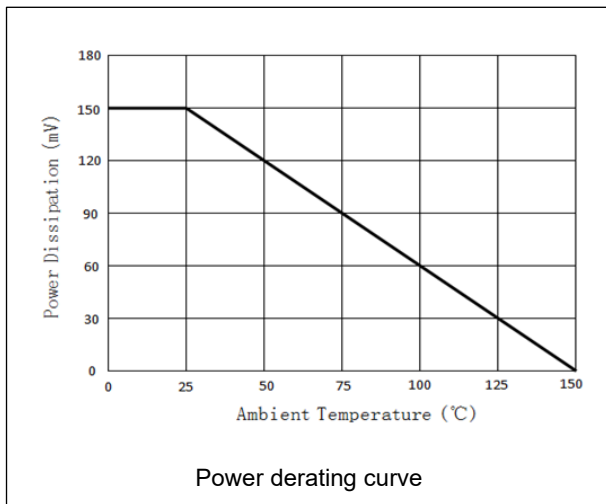
*1 Pulse width = 10 ms

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
BZX84C2V4	Z11	2.28	2.4	2.52	5	100	1	600	50	1
BZX84C2V7	W2	2.5	2.7	2.9	5	100	1	600	20	1
BZX84C3V0	Z13	2.8	3	3.2	5	95	1	600	10	1
BZX84C3V3	Z14	3.1	3.3	3.5	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 _{zT} @ I _{ZT}		Z _{zk} @ I _{zk}		I _R @ V _R	
		Min.	Nom.	Max.	mA	Ohm	mA	Ohm	uA	V
BZX84C3V6	Z15	3.4	3.6	3.8	5	90	1	600	5	1
BZX84C3V9	Z16	3.7	3.9	4.1	5	90	1	600	3	1
BZX84C4V3	Z17	4	4.3	4.6	5	90	1	600	3	1
BZX84C4V7	Z1	4.4	4.7	5	5	80	1	500	3	2
BZX84C5V1	Z2	4.8	5.1	5.4	5	60	1	480	2	2
BZX84C5V6	Z3	5.2	5.6	6	5	40	1	400	1	2
BZX84C6V2	Z4	5.8	6.2	6.6	5	10	1	150	3	4
BZX84C6V8	Z5	6.4	6.8	7.2	5	15	1	80	2	4
BZX84C7V5	Z6	7	7.5	7.9	5	15	1	80	1	5
BZX84C8V2	Z7	7.7	8.2	8.7	5	15	1	80	0.7	5
BZX84C9V1	Z8	8.5	9.1	9.6	5	15	1	100	0.5	6
BZX84C10	Z9	9.4	10	10.6	5	20	1	150	0.2	7
BZX84C11	Y1	10.4	11	11.6	5	20	1	150	0.1	8
BZX84C12	Y2	11.4	12	12.7	5	25	1	150	0.1	8
BZX84C13	Y3	12.4	13	14.1	5	30	1	170	0.1	8
BZX84C14	WY4	13.0	14	14.7	5	25	1	110	0.1	10.5
BZX84C15	Y4	13.8	15	15.6	5	30	1	200	0.1	10.5
BZX84C16	Y5	15.3	16	17.1	5	40	1	200	0.1	11.2
BZX84C18	Y6	16.8	18	19.1	5	45	1	225	0.1	12.6
BZX84C20	Y7	18.8	20	21.2	5	55	1	225	0.1	14
BZX84C22	Y8	20.8	22	23.3	5	55	1	250	0.1	15.4
BZX84C24	Y9	22.8	24	25.6	5	70	1	250	0.1	16.8
BZX84C27	Y10	25.1	27	28.9	2	80	0.5	300	0.1	18.9
BZX84C30	Y11	28	30	32	2	80	0.5	300	0.1	21
BZX84C33	Y12	31	33	35	2	80	0.5	325	0.1	23.1
BZX84C36	Y13	34	36	38	2	90	0.5	350	0.1	25.2
BZX84C39	Y14	37	39	41	2	130	0.5	350	0.1	27.3
BZX84C43	Y15	40.85	43	45.15	2	150	0.5	375	0.1	30.1
BZX84C47	Y16	44.65	47	49.35	2	170	0.5	375	0.1	32.9
BZX84C51	Y17	48.45	51	53.55	2	180	0.5	400	0.1	35.7
BZX84C56	Y18	53.2	56	58.8	2	200	0.5	425	0.05	39.2
BZX84C62	Y19	58.9	62	65.1	2	215	0.5	450	0.05	43.4
BZX84C68	Y20	64.6	68	71.4	2	240	0.5	475	0.05	47.6
BZX84C75	Y21	71.25	75	78.75	2	255	0.5	500	0.05	52.5

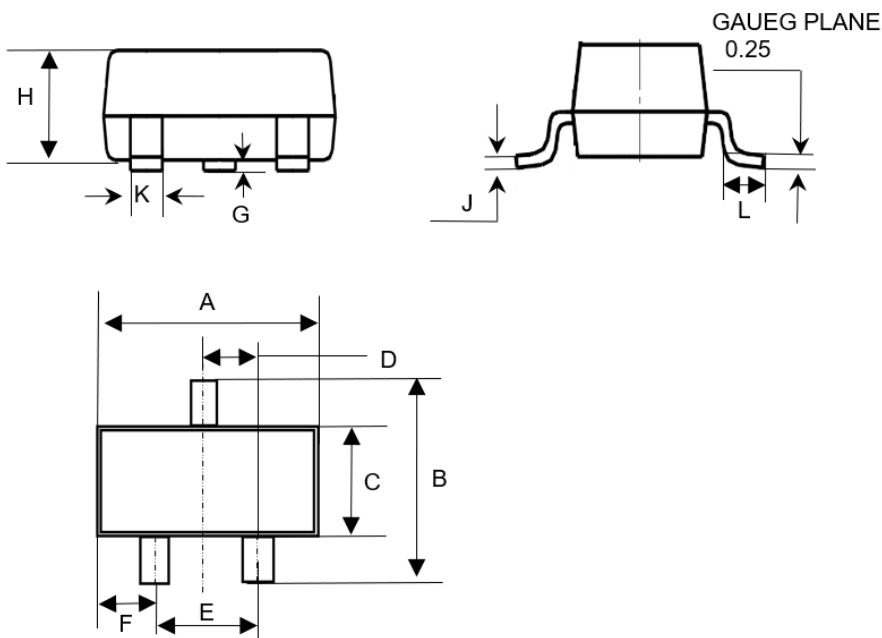
RATING AND CHARACTERISTICS CURVES





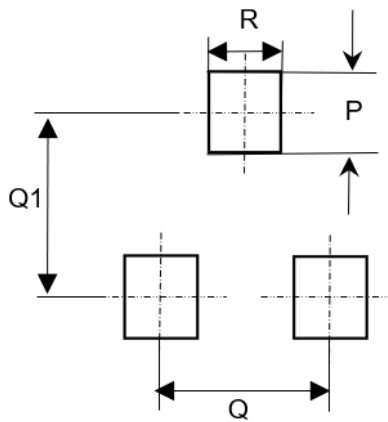
PACKAGE OUTLINE DIMENSIONS

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

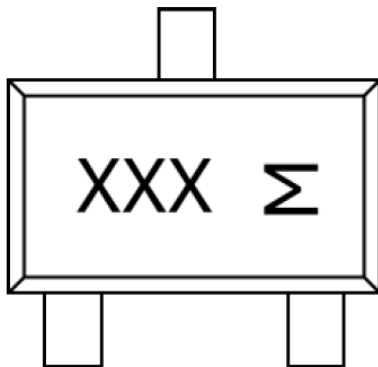


Symbol	Type
Q	1.900
Q1	2.000
P	0.900
R	0.800
Unit: mm	

Land Pattern Recommendation

DEVICE MARKING CODE AND ORDERING INFORMATION

DEVICE	Marking	Quantity	Packing
BZX84C 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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