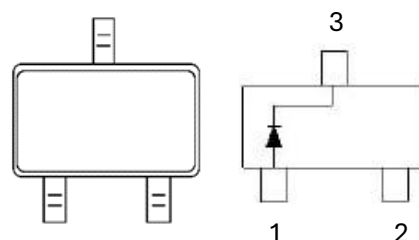


FEATURES AND BENEFITS

Product Summary		
P_D	200mW	@25 °C
V_Z	2.4 – 39V	@25 °C
V_F	1.2V	@ $I_F=100mA$

- Planar Die construction
- Wide Voltage Range Selection 2.4V to 39V
- 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: 0.006 grams (Approximate)

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Maximum Ratings (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Power Dissipation	P_{TM}	200	mW
Forward Voltage @ $I_F=100mA$	V_F	1.2	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*	$R_{\theta JA}$	625	°C/W

* Device mounted on 1"x1" FR4 PCB

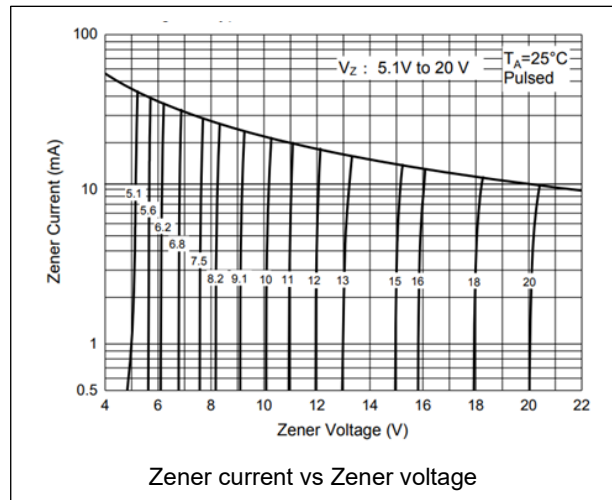
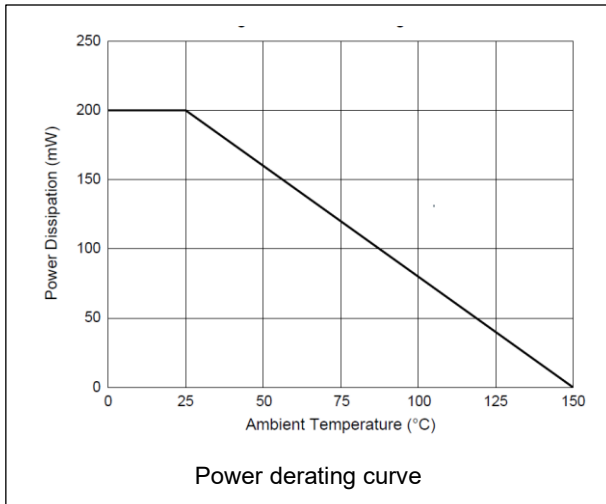
ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)

*Pulse Width = 10ms

Type Number	Device Marking	Nominal Zener Voltage			Maximum Zener Impedance				Max. Reverse Leakage Current	
		$V_Z(V) @ I_{ZT}$			$Z_{ZT}@I_{ZT}$		$Z_{Zk}@I_{Zk}$		I_R	@ V_R
		Min.	Nom.	Max.	mA	Ω	mA	Ω	μA	V
BZX84C2V4W	KRB	2.28	2.4	2.52	5	100	1	600	50	1
BZX84C2V7W	KRC	2.5	2.7	2.9	5	100	1	600	20	1
BZX84C3V0W	KRD	2.8	3	3.2	5	95	1	600	10	1
BZX84C3V3W	KRE	3.1	3.3	3.5	5	95	1	600	5	1

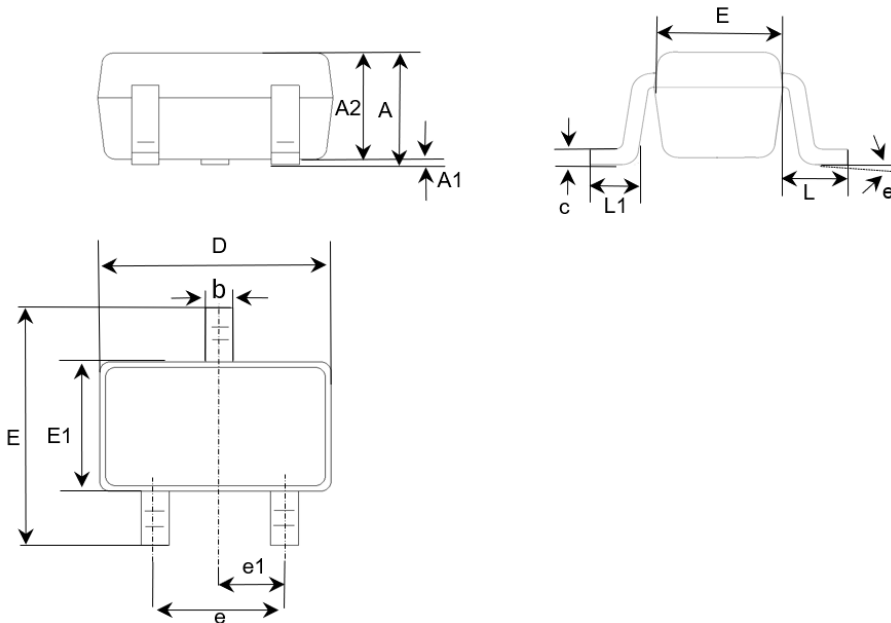
Type Number	Device Marking	Nominal Zener Voltage			Maximum Zener Impedance				Max. Reverse Leakage Current	
		V _Z (V) @ I _{ZT}			Z _{ZT} @I _{ZT}		Z _{Zk} @I _{Zk}		I _R	@V _R
		Min.	Nom.	Max.	mA	Ω	mA	Ω	μA	V
BZX84C3V6W	KRF	3.4	3.6	3.8	5	90	1	600	5	1
BZX84C3V9W	KRG	3.7	3.9	4.1	5	90	1	600	3	1
BZX84C4V3W	KRH	4	4.3	4.6	5	90	1	600	3	1
BZX84C4V7W	KR1	4.4	4.7	5	5	80	1	500	3	2
BZX84C5V1W	KR2	4.8	5.1	5.4	5	60	1	480	2	2
BZX84C5V6W	KR3	5.2	5.6	6	5	40	1	400	1	2
BZX84C6V2W	KR4	5.8	6.2	6.6	5	10	1	150	3	4
BZX84C6V8W	KR5	6.4	6.8	7.2	5	15	1	80	2	4
BZX84C7V5W	KR6	7	7.5	7.9	5	15	1	80	1	5
BZX84C8V2W	KR7	7.7	8.2	8.7	5	15	1	80	0.7	5
BZX84C9V1W	KR8	8.5	9.1	9.6	5	15	1	100	0.5	6
BZX84C10W	KR9	9.4	10	10.6	5	20	1	150	0.2	7
BZX84C11W	KP1	10.4	11	11.6	5	20	1	150	0.1	8
BZX84C12W	KP2	11.4	12	12.7	5	25	1	150	0.1	8
BZX84C13W	KP3	12.4	13	14.1	5	30	1	170	0.1	8
BZX84C15W	KP4	13.8	15	15.6	5	30	1	200	0.1	10.5
BZX84C16W	KP5	15.3	16	17.1	5	40	1	200	0.1	11.2
BZX84C18W	KP6	16.8	18	19.1	5	45	1	225	0.1	12.6
BZX84C20W	KP7	18.8	20	21.2	5	55	1	225	0.1	14
BZX84C22W	KP8	20.8	22	23.3	5	55	1	250	0.1	15.4
BZX84C24W	KP9	22.8	24	25.6	5	70	1	250	0.1	16.8
BZX84C27W	KPA	25.1	27	28.9	5	80	1	300	0.1	18.9
BZX84C30W	KPB	28	30	32	5	80	1	300	0.1	21
BZX84C33W	KPC	31	33	35	5	80	1	325	0.1	23.1
BZX84C36W	KPD	34	36	38	5	90	1	350	0.1	25.2
BZX84C39W	KPE	37	39	41	5	130	1	350	0.1	27.3

RATING AND CHARACTERISTICS CURVES



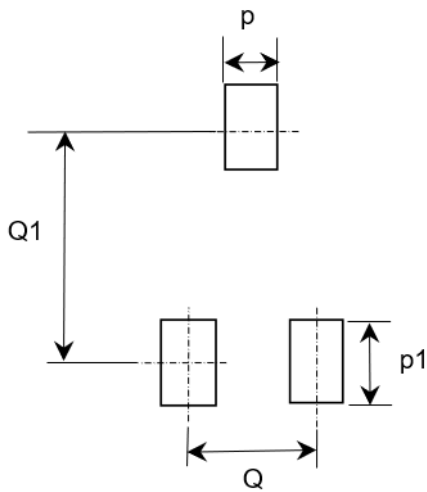
PACKAGE OUTLINE DIMENSIONS

SOT-323



Symbol	MIN	MAX
A	0.90	1.00
A1	0.00	0.10
A2	0.90	1.00
b	0.20	0.40
c	0.08	0.15
D	2.00	2.20
E	2.15	2.45
E1	1.15	1.35
e	1.20	1.40
e1	0.65TYP	
L	0.525REF	
L1	0.26	0.46
e	0°	8°
Unit: mm		

SUGGESTED PAD LAYOUT

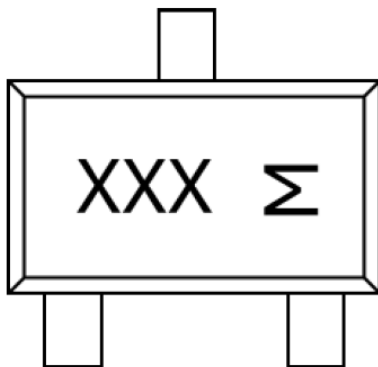


Land Pattern Recommendation

Symbol	Type
Q1	2.2
Q	1.3
p	0.5
p1	0.8
Unit: mm	

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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