

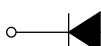
FEATURES AND BENEFITS

Product Summary		
P_D	200mW	@25 °C
V_F	0.9V	@10mA
V_{RRM}	2.4 – 75V	@25 °C

- Constant Voltage control
- 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: 0.004 grams (Approximate)

SOD-323



Cathode  Anode

Maximum Ratings (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Power Dissipation	P_{TM}	200	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

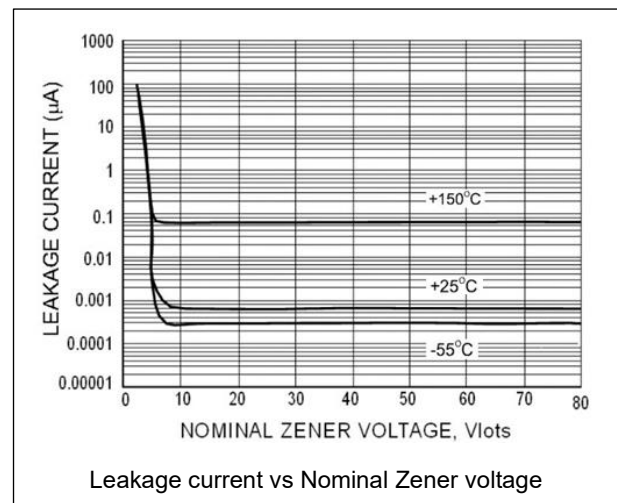
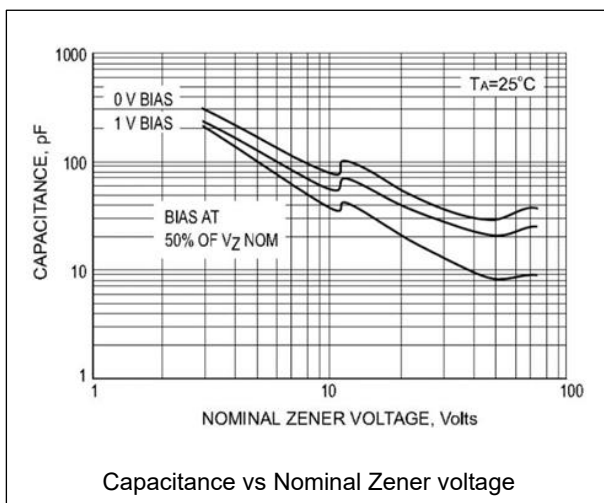
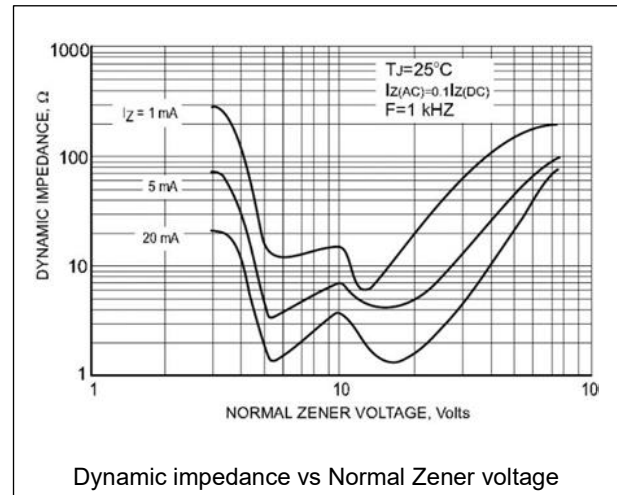
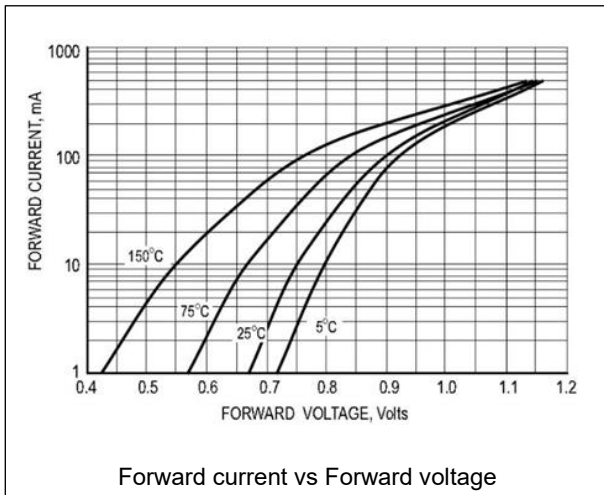
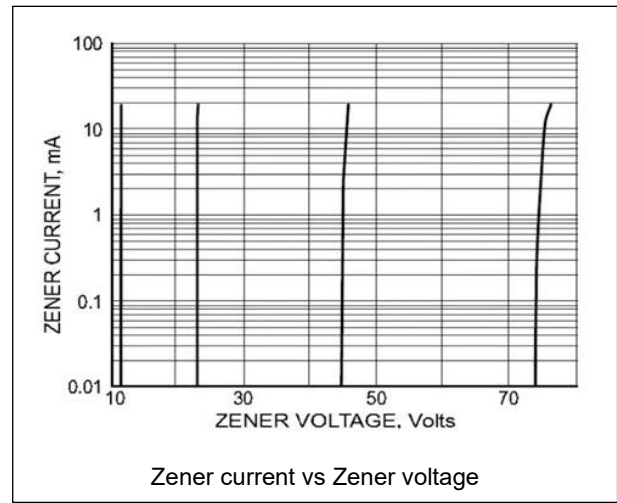
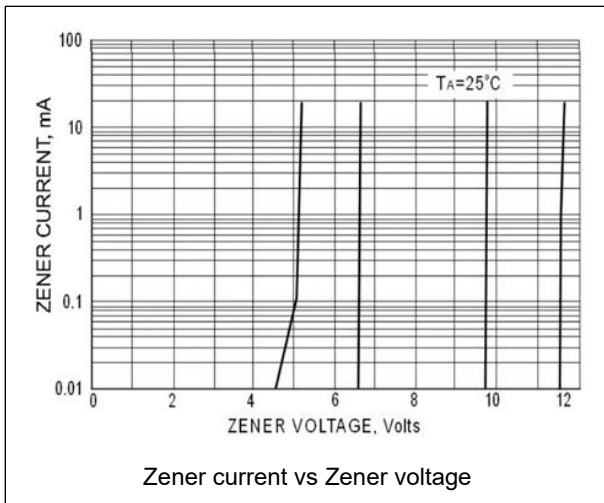
ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)

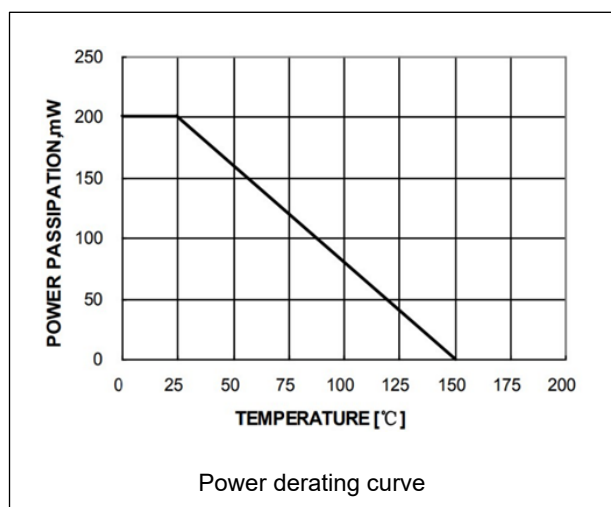
*1 Pulse width = 10 ms

Type Number	Device Marking	Vz (V) *1			IzT	ZzT@IzT	Zzk@Izk	Izk (mA)	I _R (uA)	V _R (V)
		Nom(V)	Min(V)	Max(V)	mA	Ω				
BZT52B2V4S	2WX	2.4	2.35	2.45	5	100	600	1.0	50	1.0
BZT52B2V7S	2W1	2.7	2.65	2.75	5	100	600	1.0	20	1.0
BZT52B3V0S	2W2	3.0	2.94	3.06	5	95	600	1.0	10	1.0
BZT52B3V3S	2W3	3.3	3.23	3.37	5	95	600	1.0	5	1.0
BZT52B3V6S	2W4	3.6	3.53	3.67	5	90	600	1.0	5	1.0
BZT52B3V9S	2W5	3.9	3.82	3.98	5	90	600	1.0	3	1.0
BZT52B4V3S	2W6	4.3	4.21	4.39	5	90	600	1.0	3	1.0
BZT52B4V7S	2W7	4.7	4.61	4.79	5	80	500	1.0	3	2.0
BZT52B5V1S	2W8	5.1	5.00	5.20	5	60	480	1.0	2	2.0

Type Number	Device Marking	Vz (V) *1			IzT	ZzT@IzT	Zzk@Izk	Izk (mA)	IR (uA)	VR (V)
		Nom(V)	Min(V)	Max(V)						
BZT52B5V6S	2W9	5.6	5.49	5.71	5	40	400	1.0	1	2.0
BZT52B6V2S	2WA	6.2	6.08	6.32	5	10	150	1.0	3	4.0
BZT52B6V8S	2WB	6.8	6.66	6.94	5	15	80	1.0	2	4.0
BZT52B7V5S	2WC	7.5	7.35	7.65	5	15	80	1.0	1	5.0
BZT52B8V2S	2WD	8.2	8.04	8.36	5	15	80	1.0	0.7	5.0
BZT52B9V1S	2WE	9.1	8.92	9.28	5	15	100	1.0	0.5	6.0
BZT52B10S	2WF	10	9.80	10.20	5	20	150	1.0	0.2	7.0
BZT52B11S	2WG	11	10.78	11.22	5	20	150	1.0	0.1	8.0
BZT52B12S	2WH	12	11.76	12.24	5	25	150	1.0	0.1	8.0
BZT52B13S	2WI	13	12.74	13.26	5	30	170	1.0	0.1	8.0
BZT52B14S	2WY	14	13.72	14.28	5	25	110	1.0	0.1	10.5
BZT52B15S	2WJ	15	14.70	15.30	5	30	200	1.0	0.1	10.5
BZT52B16S	2WK	16	15.68	16.32	5	40	200	1.0	0.1	11.2
BZT52B18S	2WL	18	17.64	18.36	5	45	225	1.0	0.1	12.6
BZT52B20S	2WM	20	19.60	20.40	5	55	225	1.0	0.1	14.0
BZT52B22S	2WN	22	21.56	22.44	5	55	250	1.0	0.1	15.4
BZT52B24S	2WO	24	23.52	24.48	5	70	250	1.0	0.1	16.8
BZT52B27S	2WP	27	26.46	27.54	2	80	300	0.5	0.1	18.9
BZT52B30S	2WQ	30	29.40	30.60	2	80	300	0.5	0.1	21.0
BZT52B33S	2WR	33	32.34	33.66	2	80	325	0.5	0.1	23.1
BZT52B36S	2WS	36	35.28	36.72	2	90	350	0.5	0.1	25.2
BZT52B39S	2WT	39	38.22	39.78	2	130	350	0.5	0.1	27.3
BZT52B43S	2WU	43	42.14	43.86	2	130	350	0.5	0.1	29.4
BZT52B47S	2WV	47	45.83	48.17	2	170	1000	0.25	0.1	36
BZT52B51S	2X1	51	49.73	52.27	2	180	1300	0.25	0.1	39
BZT52B56S	2X2	56	54.60	57.40	2	200	1400	0.25	0.1	43
BZT52B62S	2X3	62	60.45	63.55	2	225	1400	0.25	0.1	47
BZT52B68S	2X4	68	66.30	69.70	2	240	1600	0.25	0.1	52
BZT52B75S	2X5	75	73.13	76.87	2	265	1700	0.25	0.1	56

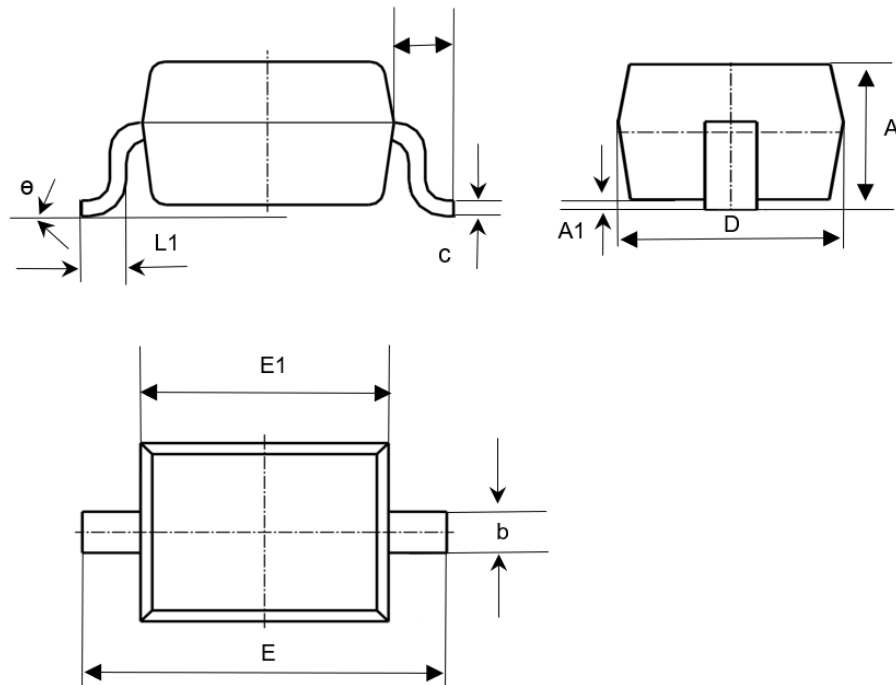
RATING AND CHARACTERISTICS CURVES





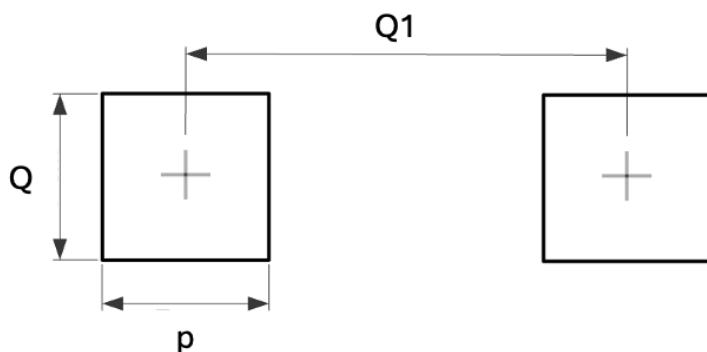
PACKAGE OUTLINE DIMENSIONS

SOD-323



Symbol	MIN	MAX
A	-	1.00
A1	0.00	0.10
b	0.25	0.35
c	0.08	0.15
D	1.20	1.40
E	2.30	2.70
E1	1.60	1.80
L	0.475REF	
L1	0.25	0.4
θ	0°	8°
Unit: mm		

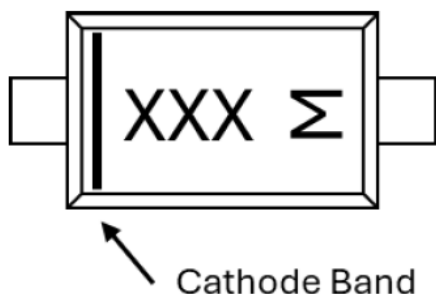
SUGGESTED PAD LAYOUT



Symbol	Typ
Q1	2.15
Q	0.7
p	0.7
Unit: mm	

DEVICE MARKING CODE AND ORDERING INFORMATION

DEVICE	Marking	Quantity	Packing
BZT52B 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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