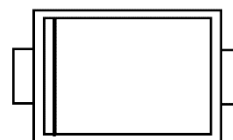


FEATURES AND BENEFITS

Product Summary		
P_D	150mW	@25 °C
I_{ZT}	2 / 5mA	@25 °C
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: 0.0016 grams (Approximate)

SOD-523



Cathode  Anode

Maximum Ratings (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Power Dissipation	P_{TM}	150	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55 to +150	°C

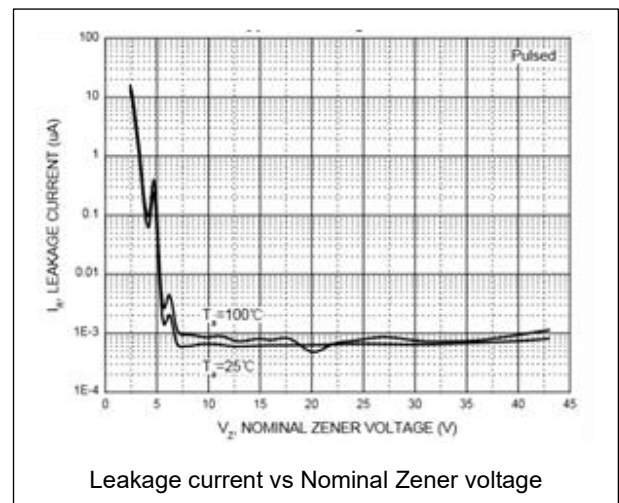
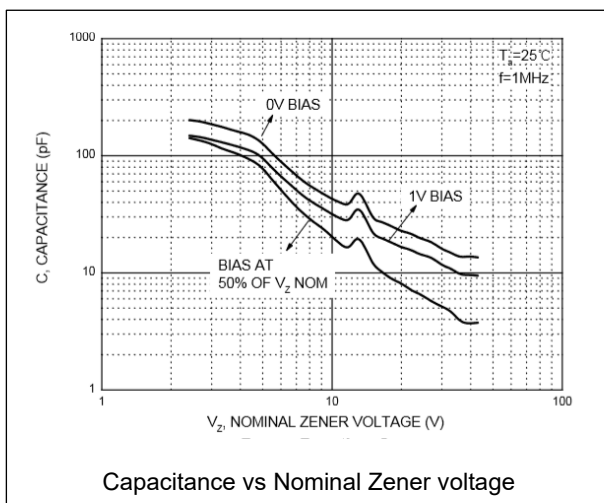
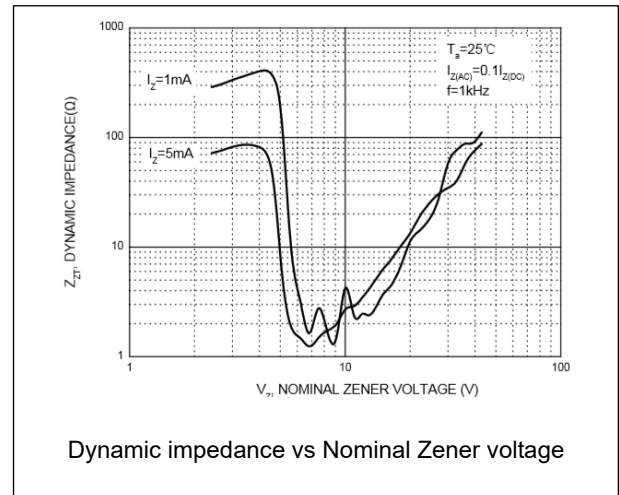
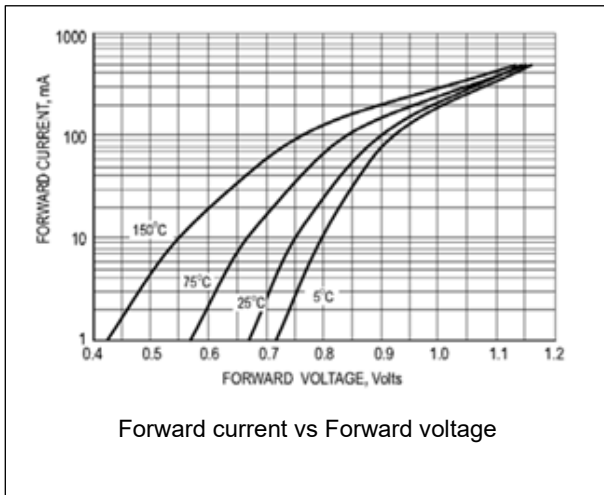
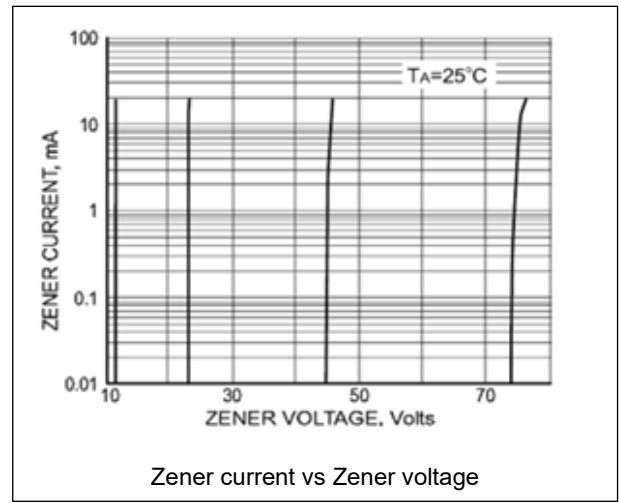
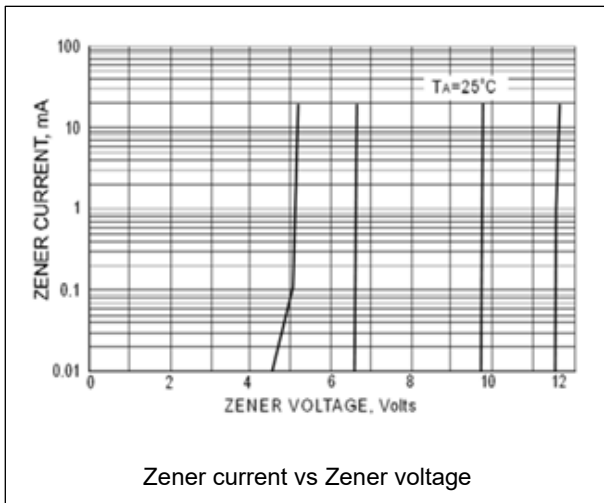
ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)

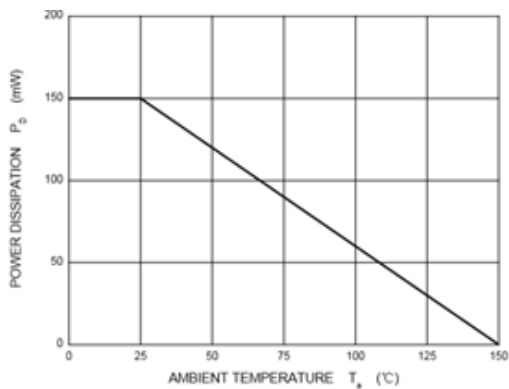
*1 Pulse width = 10 ms

Type Number	Device Marking	V_Z (V) *1			I_{ZT} mA	$Z_{ZT}@I_{ZT}$ Ω	$Z_{ZK}@I_{ZK}$ Ω	I_{ZK} (mA)	I_R (μ A)	V_R (V)
		Nom(V)	Min(V)	Max(V)						
BZX584C2V4	Z11	2.4	2.20	2.60	5	100	600	1.0	50	1.0
BZX584C2V7	Z12	2.7	2.5	2.9	5	100	600	1.0	20	1.0
BZX584C3V0	Z13	3.0	2.8	3.2	5	95	600	1.0	10	1.0
BZX584C3V3	Z14	3.3	3.1	3.5	5	95	600	1.0	5	1.0
BZX584C3V6	Z15	3.6	3.4	3.8	5	90	600	1.0	5	1.0
BZX584C3V9	Z16	3.9	3.7	4.1	5	90	600	1.0	3	1.0
BZX584C4V3	Z17	4.3	4.0	4.6	5	90	600	1.0	3	1.0
BZX584C4V7	Z1	4.7	4.4	5.0	5	80	500	1.0	3	2.0
BZX584C5V1	Z2	5.1	4.8	5.4	5	60	480	1.0	2	2.0
BZX584C5V6	Z3	5.6	5.2	6.0	5	40	400	1.0	1	2.0

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)						
BZX584C6V2	Z4	6.2	5.8	6.6	5	10	150	1.0	3	4.0
BZX584C6V8	Z5	6.8	6.4	7.2	5	15	80	1.0	2	4.0
BZX584C7V5	Z6	7.5	7.0	7.9	5	15	80	1.0	1	5.0
BZX584C8V2	Z7	8.2	7.7	8.7	5	15	80	1.0	0.7	5.0
BZX584C9V1	Z8	9.1	8.5	9.6	5	15	100	1.0	0.5	6.0
BZX584C10	Z9	10.0	9.4	10.6	5	20	150	1.0	0.2	7.0
BZX584C11	Y1	11.0	10.4	11.6	5	20	150	1.0	0.1	8.0
BZX584C12	Y2	12.0	11.40	12.7	5	25	150	1.0	0.1	8.0
BZX584C13	Y3	13.0	12.40	14.10	5	30	170	1.0	0.1	8.0
BZX584C14	Z10	14	13.3	14.7	5	30	110	1.0	0.1	10.5
BZX584C15	Y4	15.0	13.8	15.6	5	30	200	1.0	0.1	10.5
BZX584C16	Y5	16.0	15.3	17.1	5	40	200	1.0	0.1	11.2
BZX584C18	Y6	18.0	16.8	19.1	5	45	225	1.0	0.1	12.6
BZX584C20	Y7	20.0	18.8	21.2	5	55	225	1.0	0.1	14.0
BZX584C22	Y8	22.0	20.8	23.3	5	55	250	1.0	0.1	15.4
BZX584C24	Y9	24.0	22.80	25.6	5	70	250	1.0	0.1	16.8
BZX584C27	Y10	27.0	25.1	28.9	2	80	300	0.5	0.1	18.9
BZX584C30	Y11	30.0	28.0	32.0	2	80	300	0.5	0.1	21.0
BZX584C33	Y12	33.0	31.0	35.0	2	80	325	0.5	0.1	23.1
BZX584C36	Y13	36.0	34.0	38.0	2	90	350	0.5	0.1	25.2
BZX584C39	Y14	39.0	37.0	41.0	2	130	350	0.5	0.1	27.3
BZX584C43	Y15	43.0	40.0	46.0	2	100	700	1	0.1	32
BZX584C47	V1	47.0	44.65	49.35	2	170	1000	0.25	0.1	36
BZX584C51	V2	51	48.45	53.55	2	180	1300	0.25	0.1	39
BZX584C56	V3	56	53.20	58.80	2	200	1400	0.25	0.1	43
BZX584C62	V4	62	58.90	65.10	2	225	1400	0.25	0.1	47
BZX584C68	V5	68	64.60	71.40	2	240	1600	0.25	0.1	52
BZX584C75	V6	75	71.25	78.75	2	265	1700	0.25	0.1	56

RATING AND CHARACTERISTICS CURVES

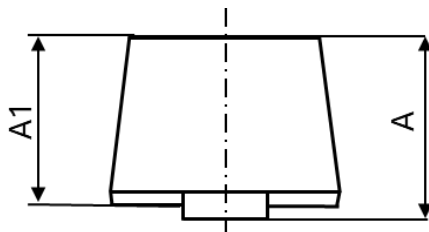
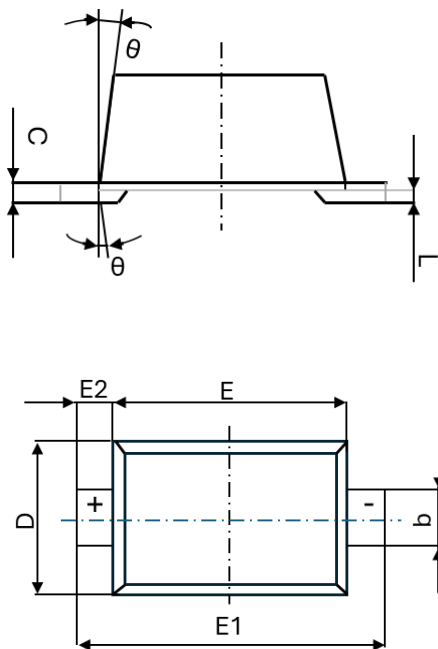




Power derating curve

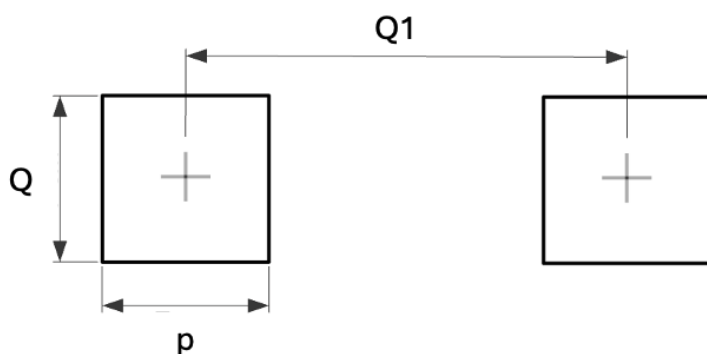
PACKAGE OUTLINE DIMENSIONS

SOD-523



Symbol	MIN	MAX
A	0.51	0.77
A1	0.50	0.70
b	0.25	0.35
c	0.08	0.15
D	0.75	0.85
E	1.10	1.30
E1	1.50	1.70
E2	0.20REF.	
L	0.01	0.07
θ	7°REF.	
Unit: mm		

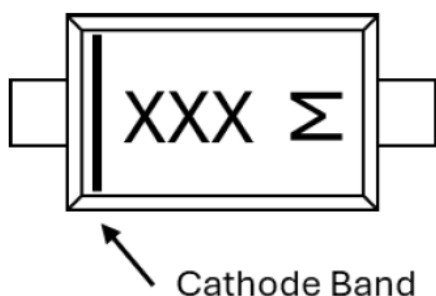
SUGGESTED PAD LAYOUT



Symbol	Type
Q1	1.42
Q	0.7
p	0.6
Unit: mm	

DEVICE MARKING CODE AND ORDERING INFORMATION

DEVICE	Marking	Quantity	Packing
BZX584B series	Refer to Device Marking	8000/7"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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