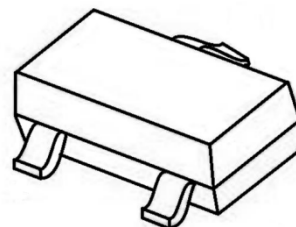


BZX84C2V4-BZX84C62 ZENER DIODE

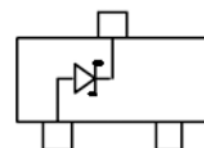
Feature

- Planar Die Construction
- Zener Voltages from 2.4V-51V
- RoHS compliant / Green EMC

SOT-23



Top View



ABSOLUTE MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Forward Voltage @ $I_F=10\text{mA}$	V_F	0.9	V
Power Dissipation (Note1)	P_D	0.35	W
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 ~ +150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Type Number	Type Code	Zener Voltage Range (Note 2)				Maximum Zener Impedance (Note 3)			Maximum Reverse Current		Typical Temperature Coefficient @ I_{ZT}	
		$V_Z@I_{ZT}$			I_{ZT}	$Z_{ZT}@I_{ZT}$	$Z_{ZK}@I_{ZK}$	I_{ZK}	I_R	V_R	mV/ $^{\circ}\text{C}$	
		Nom(V)	Min(V)	Max(V)	mA	Ω		mA	μA	V	Min	Max
BZT84C2V4	W1/Z11/HZB	2.4	2.2	2.6	5	100	600	1.0	50	1.0	-3.5	0
BZT84C2V7	W2/Z12/HZC	2.7	2.5	2.9	5	100	600	1.0	20	1.0	-3.5	0
BZT84C3V0	W3/Z13/HZD	3.0	2.8	3.2	5	95	600	1.0	10	1.0	-3.5	0
BZT84C3V3	W4/Z14/HZE	3.3	3.1	3.5	5	95	600	1.0	5	1.0	-3.5	0
BZT84C3V6	W5/Z15/HZF	3.6	3.4	3.8	5	90	600	1.0	5	1.0	-3.5	0
BZT84C3V9	W6/Z16/HZG	3.9	3.7	4.1	5	90	600	1.0	3	1.0	-3.5	0
BZT84C4V3	W7/Z17/ZHH	4.3	4.0	4.6	5	90	600	1.0	3	1.0	-3.5	0
BZT84C4V7	W8/Z1/HZ1	4.7	4.4	5.0	5	80	500	1.0	3	2.0	-3.5	0.2
BZT84C5V1	W9/Z2/HZ2	5.1	4.8	5.4	5	60	480	1.0	2	2.0	-2.7	2.5
BZT84C5V6	WA/Z3/HZ3	5.6	5.2	6.0	5	40	400	1.0	1	2.0	-2.0	3.7
BZT84C6V2	WB/Z4/HZ4	6.2	5.8	6.6	5	10	150	1.0	3	4.0	0.4	4.5

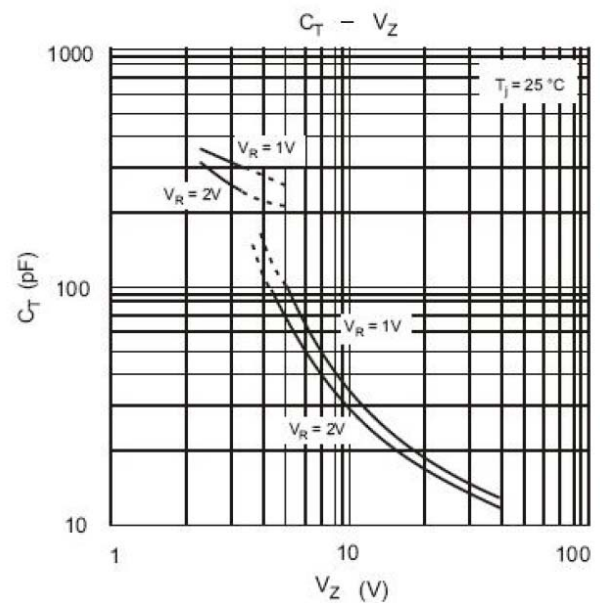
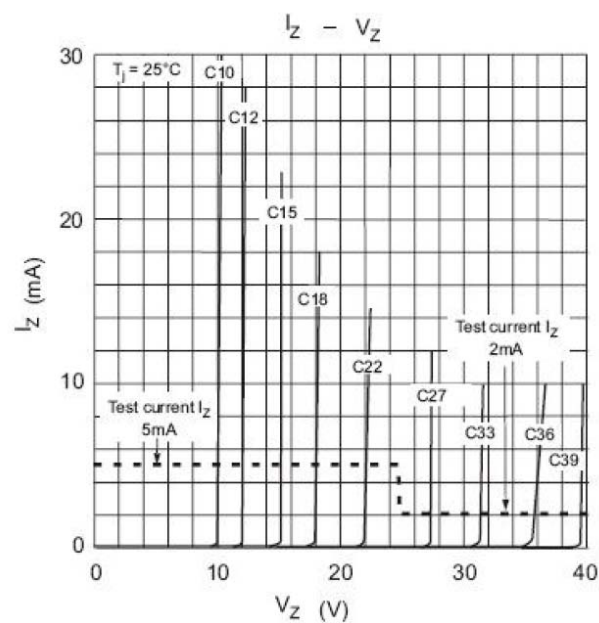
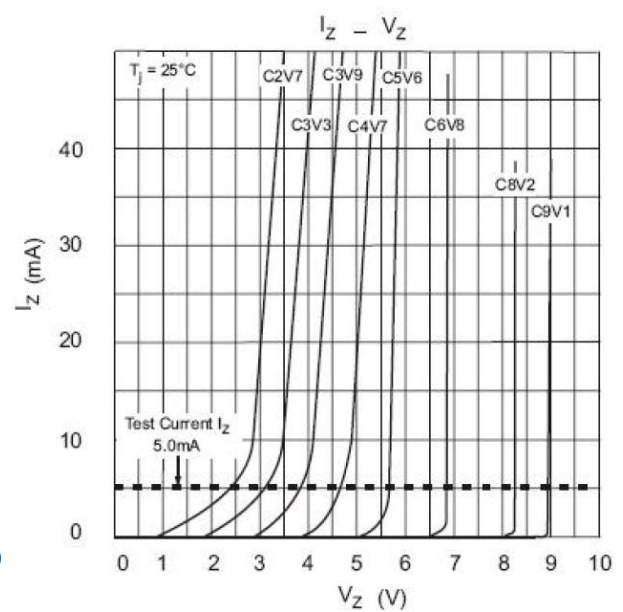
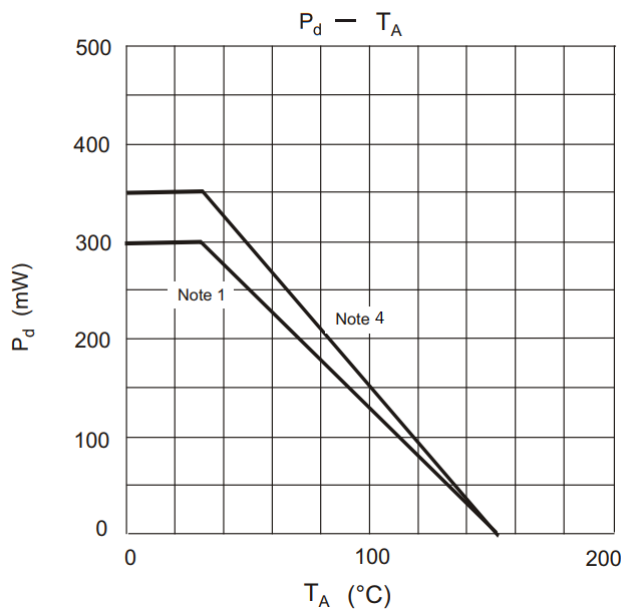
ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise noted)

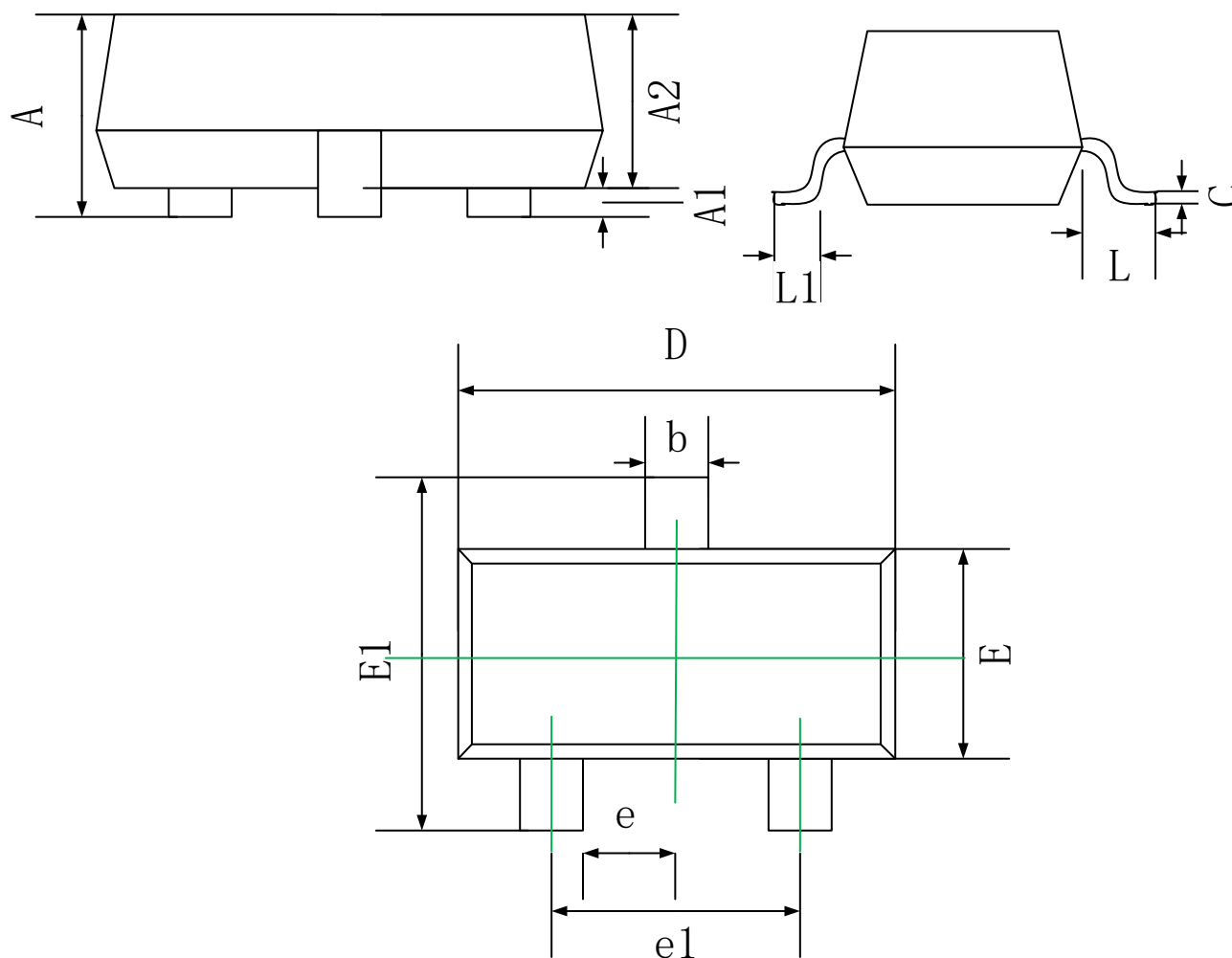
Type Number	Type Code	Zener Voltage Range (Note 2)				Maximum Zener Impedance (Note 3)			Maximum Reverse Current		Typical Temperature Coefficient @I _{ZT}	
		V _Z @I _{ZT}			I _{ZT}	Z _{ZT} @I _{ZT}	Z _{ZK} @I _{ZK}	I _{ZK}	I _R	V _R	mV/°C	
		Nom(V)	Min(V)	Max(V)	mA	Ω		mA	μA	V	Min	Max
BZT84C6V8	WC/Z5/HZ5	6.8	6.4	7.2	5	15	80	2.0	2	4.0	1.2	4.5
BZT84C7V5	WD/Z6/HZ6	7.5	7.0	7.9	5	15	80	1.0	1	5.0	2.5	5.3
BZT84C8V2	WE/Z7/HZ7	8.2	7.7	8.7	5	15	80	0.7	0.7	5.0	3.2	6.2
BZT84C9V1	WF/Z8/HZ8	9.1	8.5	9.6	5	15	100	0.5	0.5	6.0	3.8	7.0
BZT84C10	WG/Z9/HZ9	10	9.4	10.6	5	20	150	0.2	0.2	7.0	4.5	8.0
BZT84C11	WH/Y1/HY1	11	10.4	11.6	5	20	150	0.1	0.1	8.0	5.4	9.0
BZT84C12	WI/Y2/HY2	12	11.4	12.7	5	25	150	0.1	0.1	8.0	6.0	10.0
BZT84C13	WK/Y3/HY3	13	12.4	14.1	5	30	170	0.1	0.1	8.0	7.0	11.0
BZT84C15	WL/Y4/HY4	15	13.8	15.6	5	30	200	0.1	0.1	10.5	9.2	13.0
BZT84C16	WM/Y5/HY5	16	15.3	17.1	5	40	200	0.1	0.1	11.2	10.4	14.0
BZT84C18	WN/Y6/HY6	18	16.8	19.1	5	45	225	0.1	0.1	12.6	12.4	16.0
BZT84C20	WO/Y7/HY7	20	18.8	21.2	5	55	225	0.1	0.1	14.0	14.4	18.0
BZT84C22	WP/Y8/HY8	22	20.8	23.3	5	55	250	0.1	0.1	15.4	16.4	20.0
BZT84C24	WR/Y9/HY9	24	22.8	25.6	5	70	250	0.1	0.1	16.8	18.4	22.0
BZT84C27	WS/Y10/HYA	27	25.1	28.9	2	80	300	0.1	0.1	18.9	21.4	25.3
BZT84C30	WT/Y11/HYB	30	28.0	32.0	2	80	300	0.1	0.1	21.0	24.4	29.4
BZT84C33	WU/Y12/HYC	33	31.0	35.0	2	80	325	0.1	0.1	23.1	27.4	33.4
BZT84C36	WW/Y13/HYD	36	34.0	38.0	2	90	350	0.1	0.1	25.2	30.4	37.4
BZT84C39	WX/Y14/HYE	39	37.0	41.0	2	130	350	0.1	0.1	27.3	33.4	41.2
BZT84C43	WY/Y15/HYF	43	40.0	46.0	2	150	375	0.1	0.1	30.1	10.0	12.0
BZT84C47	WZ/Y16/HYG	47	44.0	50.0	2	170	375	0.1	0.1	32.9	10.0	12.0
BZT84C51	XA/Y17/HYH	51	48.0	54.0	2	180	400	0.1	0.1	35.7	10.0	12.0
BZX84C62	Y19	62	58.0	66.0	2	215	450	0.5	0.05	43.4	10.0	12.0

Notes:

1. Device mounted on FR-4 PC board with recommended pad layout.
2. Short duration test pulse used to minimize self-heating effect.
3. f = 1KHz.
4. Valid provided the terminals are kept at ambient temperature.

Typical Characteristics



SOT-23 Package Outline Dimensions


Symbol	Dimensions In Millimeters	
	Min.	Max.
A	0.90	1.20
A1	0.00	0.10
A2	0.90	1.05
b	0.35	0.55
c	0.08	0.15
D	2.80	3.00
E	1.15	1.50
E1	2.20	2.70
e	0.95 REF.	
e1	1.80	2.00
L	0.55 REF.	
L1	0.30	0.50