

BZX84Cxx

BZX84Cxx Zener Diode

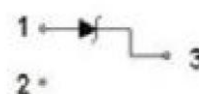
General description

SOT-23 Plastic-Encapsulate Zener Diode

SOT-23

FEATURES

- Low Zener Impedance
- Power Dissipation of 350mW
- High Stability and High Reliability
- SOT-23 Small Outline Plastic Package
- Epoxy UL: 94V-0
- Mounting Position: Any



Absolute Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

Parameters	Symbol	Value	Unit
Power Dissipation	P_d	350	mW
Forward Voltage @ $I_F=10\text{mA}$	V_f	0.9	V
Storage temperature range	T_s	-55- +150	$^\circ\text{C}$
Thermal resistance junction to ambient air	R_{thA}	357	K/W

Electrical Characteristics

$T_A = 25^\circ\text{C}$ unless otherwise noted

Part Number	Marking	Nominal Zener Voltage			Max. Zener Impedance				Max.Reverse Leakage Current	
		$V_z(V) @ I_{zT}^{*1}$			$Z_{zT} @ I_{zT}$		$Z_{zk} @ I_{zk}$		$I_R @ V_R$	
		Nom.	Min.	Max.	Ohm	mA	Ohm	mA	μA	V
BZX84C2V4	Z11	2.4	2.28	2.52	100	5	600	1	50	1.0
BZX84C2V7	Z12	2.7	2.5	2.9	100	5	600	1	20	1.0
BZX84C3V0	Z13	3	2.8	3.2	95	5	600	1	10	1.0
BZX84C3V3	Z14	3.3	3.1	3.5	95	5	600	1	5	1.0
BZX84C3V6	Z15	3.6	3.4	3.8	90	5	600	1	5	1.0
BZX84C3V9	Z16	3.9	3.7	4.1	90	5	600	1	3	1.0
BZX84C4V3	Z17	4.3	4	4.6	90	5	600	1	3	1.0
ZX84C4V7	Z1	4.7	4.4	5	80	5	500	1	3	2.0
BZX84C5V1	Z2	5.1	4.8	5.4	60	5	480	1	2	2.0
BZX84C5V6	Z3	5.6	5.2	6	40	5	400	1	1	2.0

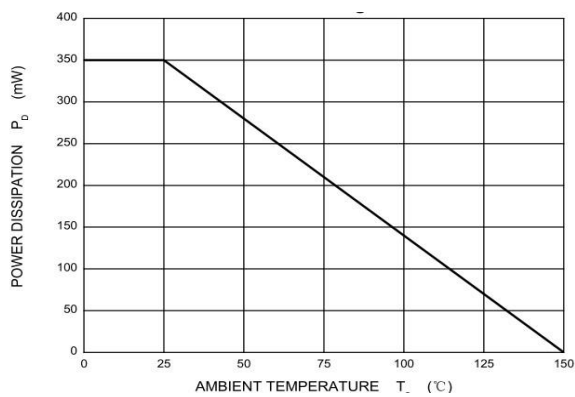
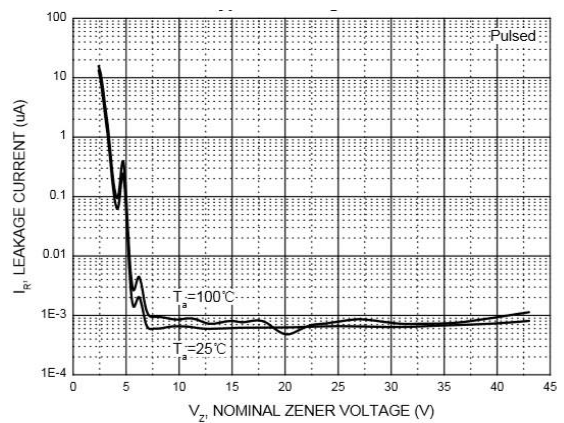
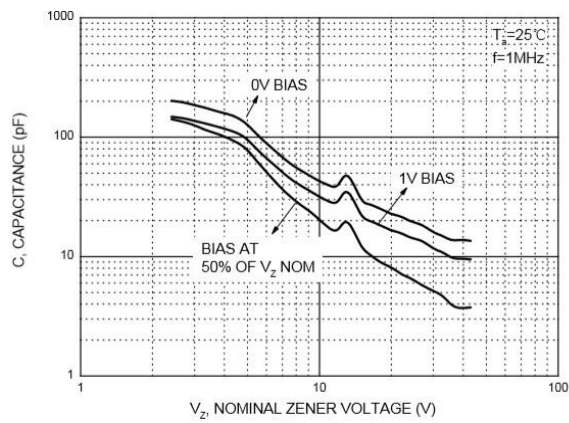
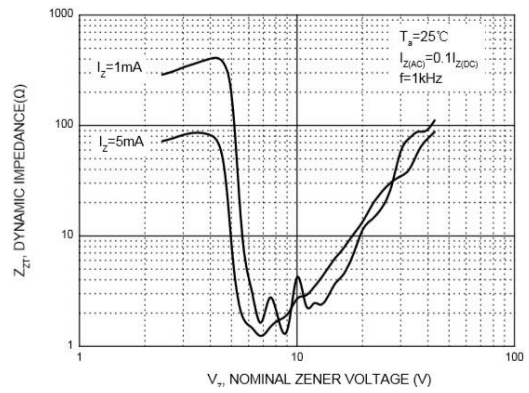
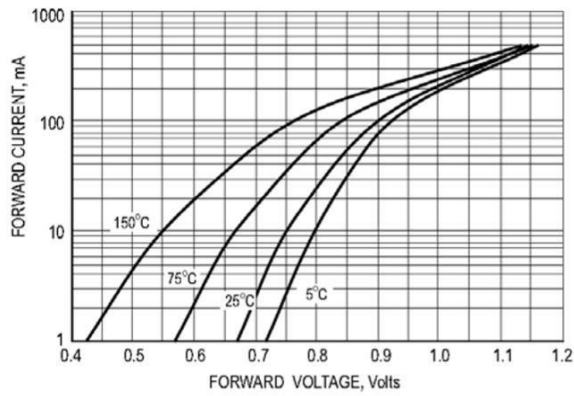
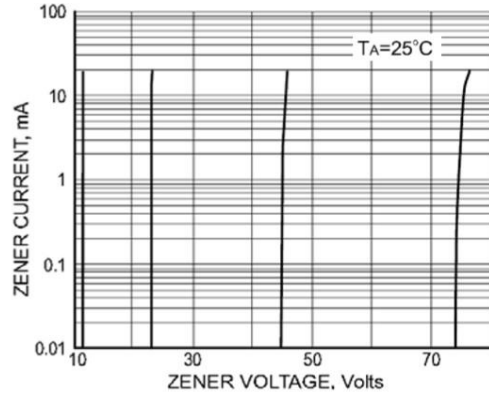
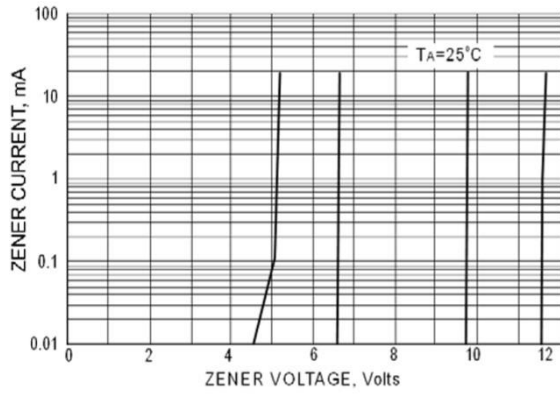
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BZX84C6V2	Z4	6.2	5.8	6.6	10	5	150	1	3	4.0
BZX84C6V8	Z5	6.8	6.4	7.2	15	5	80	1	2	4.0
BZX84C7V5	Z6	7.5	7	7.9	15	5	80	1	1	5.0
BZX84C8V2	Z7	8.2	7.7	8.7	15	5	80	1	0.7	5.0
BZX84C9V1	Z8	9.1	8.5	9.6	15	5	100	1	0.5	6.0
BZX84C10	Z9	10	9.4	10.6	20	5	150	1	0.2	7.0
BZX84C11	Y1	11	10.4	11.6	20	5	150	1	0.1	8.0
BZX84C12	Y2	12	11.4	12.7	25	5	150	1	0.1	8.0
BZX84C13	WK	13	12.4	14.1	30	5	170	1	0.1	8.0
BZX84C15	Y4	15	13.8	15.6	30	5	200	1	0.1	10.5
BZX84C16	Y5	16	15.3	17.1	40	5	200	1	0.1	11.2
BZX84C18	Y6	18	16.8	19.1	45	5	225	1	0.1	12.6
BZX84C20	Y7	20	18.8	21.2	55	5	225	1	0.1	14.0
BZX84C22	Y8	22	20.8	23.3	55	5	250	1	0.1	15.4
BZX84C24	Y9	24	22.8	25.6	70	5	250	1	0.1	16.8
BZX84C27	Y10	27	25.1	28.9	80	2	300	1	0.1	18.9
BZX84C30	Y11	30	28	32	80	2	300	1	0.1	21.0
BZX84C33	Y12	33	31	35	80	2	325	1	0.1	23.1
BZX84C36	Y13	36	34	38	90	2	350	1	0.1	25.2
BZX84C39	Y14	39	37	41	130	2	350	1	0.1	27.3
BZX84C43	Y15	43	40.85	45.15	150	5	375	1	0.1	30.10
BZX84C47	Y16	47	44.65	49.35	170	5	375	1	0.1	32.90
BZX84C51	Y17	51	48.45	53.55	100	5	400	1	0.1	35.70
BZX84C62	Y19	62	58.0	66.0	215	2	450	0.5	0.05	43.40
BZX84C68	Y20	68	64.60	71.40	240	2	1600	0.25	0.1	52
BZX84C75	Y21	75	71.25	78.75	265	2	1700	0.25	0.1	56



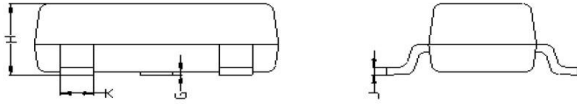
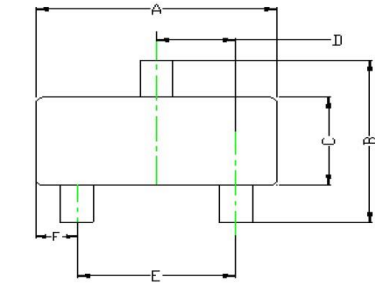
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Typical Performance Characteristics



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SOT-23 PACKAGE OUTLINE Plastic surface mounted package



Symbol	Dimensions in mm	
	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	0.090	0.180
K	0.370	0.510

Precautions: PCB Design

Recommended land dimensions for SOT-23 diode. Electrode patterns for PCBs

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