



BZX84C2V4W SERIES

SURFACE MOUNT SILICON ZENER DIODES

Voltage Range 2.4-39 Volts

Power 200mWatts

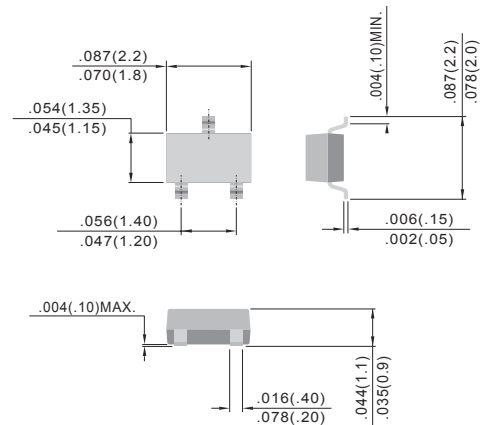
Features

- * Planar Die construction
- * 200mW Power Dissipation
- * Ideally Suited for Automated Assembly Processes
- * Both normal and Pb free product are available :
- * Normal : 80~95% Sn, 5~20% Pb
- * Pb free: 98.5% Sn above

Mechanical Data

Case: SOT-323, Molded Plastic
 Terminals: Solderable per MIL-STD-202, Method 208
 Polarity: See Diagram Below
 Approx. Weight: 0.0052 grams
 Mounting Position: Any

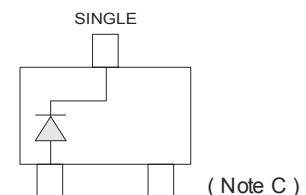
SOT-323



Dimensions in millimeters

Maximum Ratings And Electrical Characteristics

Parameter	Symbol	Value	Units
Maximum Forward Voltage Drop at IF=10mA	V _F	0.9	V
Power Dissipation (Notes A) at 25°C	P _D	200	mW
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method) (Notes B)	I _{FSM}	2.0	Amps
Operating Junction and Storage Temperature Range	T _J	-55 to +150	°C



NOTES:

1. Mounted on 5.0mm²(.013mm thick) land areas.
2. Measured on 8.3ms, single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum.
3. For Structure Purpose only.



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Part Number	Marking Code	Nominal Zener Voltage			Max. Zener Impedance				Max Reverse Leakage Current	
		V _Z @ I _{ZT}			Z _{ZT} @ I _{ZT}		Z _{ZK} @ I _{ZK}		I _R @ V _R	
		Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	uA	V
200 mWatts Zener Diodes										
BZX84C2V4W	W1	2.4	2.28	2.52	100	5.0	600	1.00	50	1.0
BZX84C2V7W	W2	2.7	2.57	2.84	100	5.0	600	1.00	20	1.0
BZX84C3W	W3	3	2.85	3.15	95	5.0	600	1.00	10	1.0
BZX84C3V3W	W4	3.3	3.14	3.47	95	5.0	600	1.00	5.0	1.0
BZX84C3V6W	W5	3.6	3.42	3.78	90	5.0	600	1.00	5.0	1.0
BZX84C3V9W	W6	3.9	3.71	4.10	90	5.0	600	1.00	3.0	1.0
BZX84C4V3W	W7	4.3	4.09	4.52	90	5.0	600	1.00	3.0	1.0
BZX84C4V7W	W8	4.7	4.47	4.94	80	5.0	500	1.00	3.0	2.0
BZX84C5V1W	W9	5.1	4.85	5.36	60	5.0	480	1.00	2.0	2.0
BZX84C5V6W	WA	5.6	5.32	5.88	40	5.0	400	1.00	1.0	2.0
BZX84C6V2W	WB	6.2	5.89	6.51	10	5.0	150	1.00	3.0	4.0
BZX84C6V8W	WC	6.8	6.46	7.14	15	5.0	80	1.00	2.0	4.0
BZX84C7V5W	WD	7.5	7.13	7.88	15	5.0	80	1.00	1.0	5.0
BZX84C8V2W	WE	8.2	7.79	8.61	15	5.0	80	1.00	0.7	5.0
BZX84C9V1W	WF	9.1	8.65	9.56	15	5.0	100	1.00	0.5	6.0
BZX84C10W	WG	10	9.50	10.50	20	5.0	150	1.00	0.2	7.0
BZX84C11W	WH	11	10.45	11.55	20	5.0	150	1.00	0.1	8.0
BZX84C12W	WI	12	11.40	12.60	25	5.0	150	1.00	0.1	8.0
BZX84C13W	WK	13	12.35	13.65	30	5.0	170	1.00	0.1	8.0
BZX84C15W	WL	15	14.25	15.75	30	5.0	200	1.00	0.1	10.5
BZX84C16W	WM	16	15.20	16.80	40	5.0	200	1.00	0.1	11.2
BZX84C18W	WN	18	17.10	18.90	45	5.0	225	1.00	0.1	12.6
BZX84C20W	WO	20	19.00	21.00	55	5.0	225	1.00	0.1	14.0
BZX84C22W	WP	22	20.90	23.10	55	5.0	250	1.00	0.1	15.4
BZX84C24W	WR	24	22.80	25.20	70	5.0	250	1.00	0.1	16.8
BZX84C27W	WS	27	25.65	28.35	80	5.0	300	1.00	0.1	18.9
BZX84C30W	WT	30	28.50	31.50	80	5.0	300	1.00	0.1	21.0
BZX84C33W	WU	33	31.35	34.65	80	5.0	325	1.00	0.1	23.1
BZX84C36W	WW	36	34.20	37.80	90	5.0	350	1.00	0.1	25.2
BZX84C39W	WX	39	37.05	40.95	130	5.0	350	1.00	0.1	27.3

STANDARD VOLTAGE TOLERANCE IS ± 5% AND :

SUFFIX " B " FOR ± 2%

SUFFIX " C " FOR ± 5%

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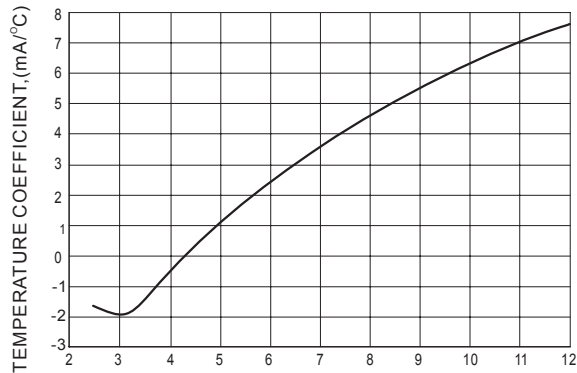


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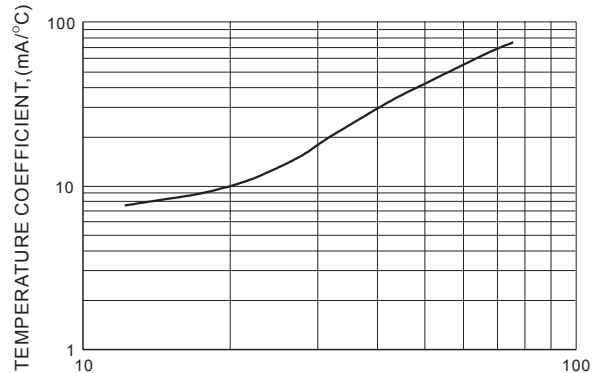
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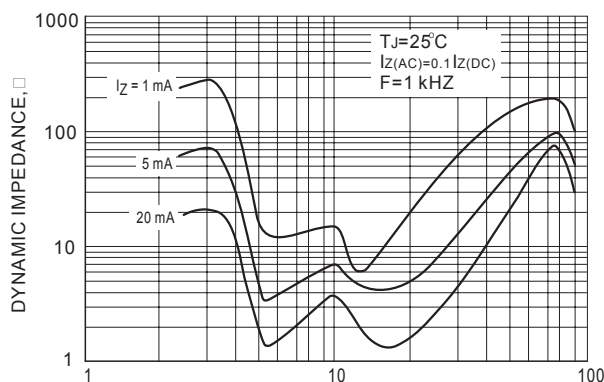
NOMINAL ZENER VOLTAGE, VOLTS

Fig.1 Temperature Coefficients



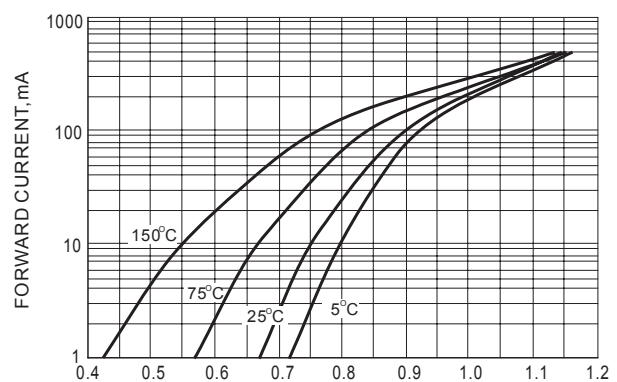
NOMINAL ZENER VOLTAGE, VOLTS

Fig.2 Temperature Coefficients



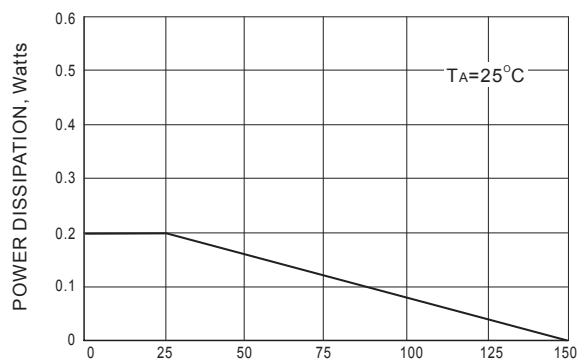
NORMAL ZENER VOLTAGE, VOLTS

Fig.3 Effect Of Zener Voltage On Zener Impedance



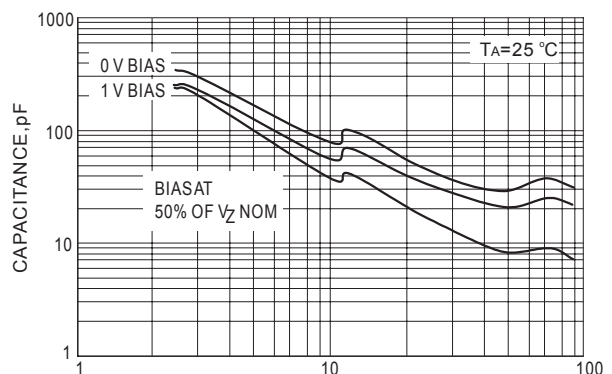
FORWARD VOLTAGE, VOLTS

Fig.4 Typical Forward Voltage



TEMPERATURE (°C)

Fig.5 Steady State Power Derating



NORMAL ZENER VOLTAGE, VOLTS

Fig.6 Typical Capacitance



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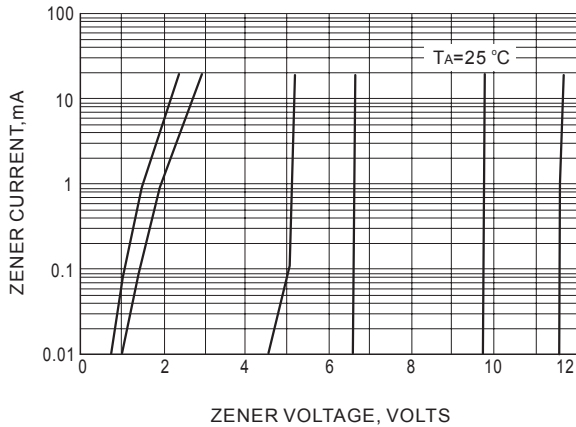


Fig.7 Zener Voltage Versus Zener Current

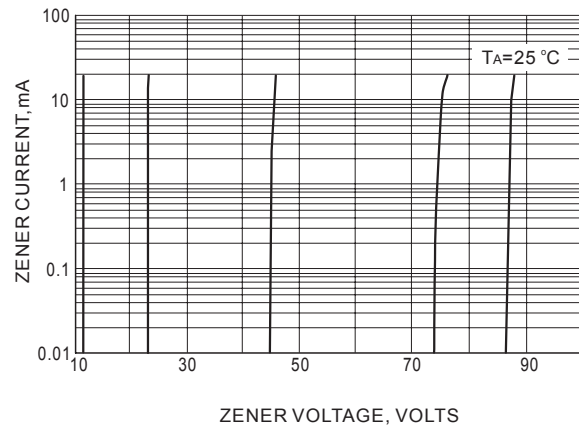


Fig.8 Zener Voltage Versus Zener Current

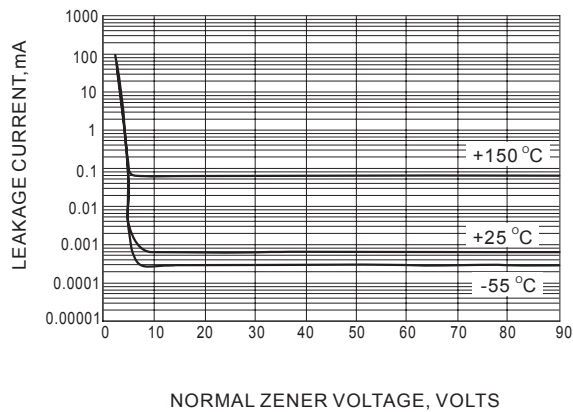


Fig.9 Typical Leakage Current