



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

BZX84C2V4

THRU

BZX84C75

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT ZENER DIODES

FEATURES

- * Voltage Range: 2.4V to 75V
- * Ideally Suited for Automated Assembly Process
- * 250mW Power Dissipation

MECHANICAL DATA

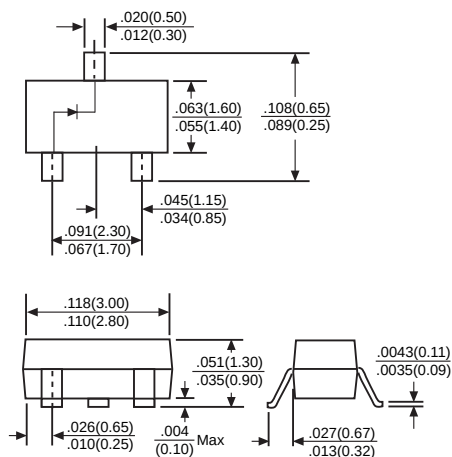
- * Case: Molded plastic
- * Terminals: Solder plated, solderable per
MIL-STD-202E, Method 208 guaranteed
- * Polarity: See Diagram
- * Mounting position: Any
- * Weight: 0.008 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.



SOT-23



	SYMBOL	VALUE	UNITS
Zener Current see Table "Characteristics"			
Maximum Power Dissipation @TA=25°C	Ptot	250	mW
Maximum Forward Voltage @IF=10mA	VF	0.9	Volts
Typical Thermal Resistance	ReJA	556	°C/W
Operating and Storage Temperature	TJ,Tstg	-55 to +150	°C

Note: Suffix 1."W" indicates "SOT-323" package. (e.g.: BZX84C2V4W,....,BZX84C75W)

2. Normal Tolerance ±5%

RATING AND CHARACTERISTIC CURVES (BZX84C SERIES)

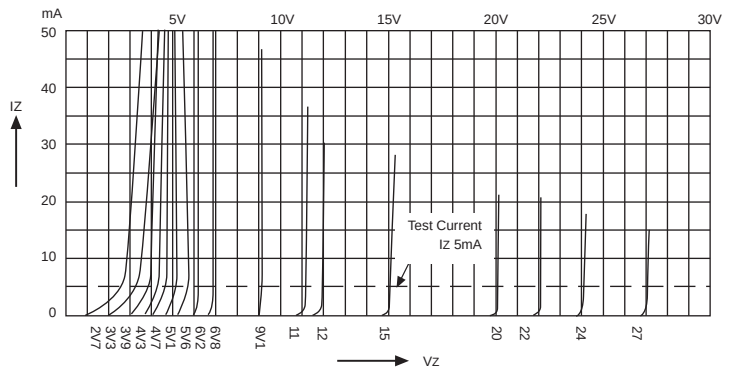
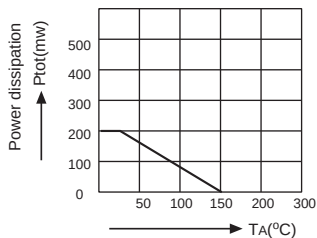
TYPE	Nominal Zener Voltage $V_Z @ I_{ZT}$		Zener Test Current I_{ZT}	Maximum Zener Impedance			Maximum Reverse Leakage Current	
				$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	I_{ZK}	$I_R @ V_R$	
	Min	Max	mA	Ohms	Ohms	mA	μA	Volts
BZX84C2V4	2.28	2.52	5	100	600	1	50	1
BZX84C2V7	2.57	2.84	5	100	600	1	20	1
BZX84C3V0	2.85	3.15	5	95	600	1	10	1
BZX84C3V3	3.14	3.47	5	95	600	1	5	1
BZX84C3V6	3.42	3.78	5	90	600	1	5	1
BZX84C3V9	3.71	4.10	5	90	600	1	3	1
BZX84C4V3	4.09	4.52	5	90	600	1	3	1
BZX84C4V7	4.47	4.94	5	80	500	1	3	2
BZX84C5V1	4.85	5.36	5	60	480	1	2	2
BZX84C5V6	5.32	5.88	5	40	400	1	1	2
BZX84C6V2	5.89	6.51	5	10	150	1	3	4
BZX84C6V8	6.46	7.14	5	15	80	1	2	4
BZX84C7V5	7.13	7.88	5	15	80	1	1	5
BZX84C8V2	7.79	8.61	5	15	80	1	0.7	5
BZX84C9V1	8.65	9.56	5	15	100	1	0.5	6
BZX84C10	9.50	10.50	5	20	150	1	0.2	7
BZX84C11	10.45	11.55	5	20	150	1	0.1	8
BZX84C12	11.40	12.60	5	25	150	1	0.1	8
BZX84C13	12.35	13.65	5	30	170	1	0.1	8
BZX84C14	13.30	14.70	5	30	170	1	0.1	10.0
BZX84C15	14.25	15.75	5	30	200	1	0.1	10.5
BZX84C16	15.20	16.80	5	40	200	1	0.1	11.2
BZX84C17	16.15	17.85	5	40	200	1	0.1	12.2
BZX84C18	17.10	18.90	5	45	225	1	0.1	12.6
BZX84C20	19.00	21.00	5	55	225	1	0.1	14.0
BZX84C22	20.90	23.10	5	55	250	1	0.1	15.4
BZX84C24	22.80	25.20	5	70	250	1	0.1	16.8
BZX84C27	25.65	28.35	5	80	300	1	0.1	18.9
BZX84C28	26.60	29.40	5	80	300	1	0.1	20.5
BZX84C30	28.50	31.50	5	80	300	1	0.1	21.0
BZX84C33	31.35	34.65	5	80	325	1	0.1	23.1
BZX84C36	34.20	37.80	5	90	350	1	0.1	25.2
BZX84C39	37.05	40.95	5	130	350	1	0.1	27.3
BZX84C43	40.85	45.15	5	150	375	1	0.1	30.1
BZX84C47	44.65	49.35	5	170	375	1	0.1	32.9
BZX84C51	48.45	53.55	5	100	400	1	0.1	38.0
BZX84C56	53	58.80	2.5	135	1000	1	0.1	42.0
BZX84C62	59	65.10	2.5	150	1000	1	0.1	46.0
BZX84C68	64	71.40	2.5	200	1000	1	0.1	51.0
BZX84C75	71	78.75	2.5	250	1000	1	0.1	56.0

NOTE: Standard Zener Voltage Tolerance $\pm 5\%$

Breakdown characteristics

BZX84-SERIES

changes in the power dissipation due to the ambient temperature.



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