

BZX84C2V4~BZX84C75

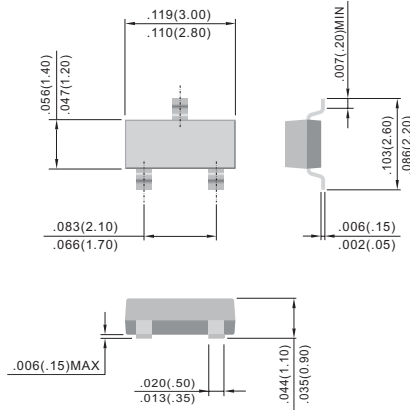
ZENER DIODES

VOLTAGE 2.4 - 75 Volts POWER 300 mWatts



SOT-23

Unit: inch (mm)



FEATURES

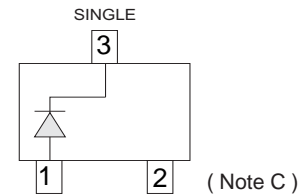
- Planar Die construction
- 350mW Power Dissipation
- Ideally Suited for Automated Assembly Processes
- Pb free product are available : 99% Sn above can meet Rohs environment substance directive request

MECHANICAL DATA

- Case: SOT-23, Molded Plastic
- Terminals: Solderable per MIL-STD-202G, Method 208
- Polarity: See Diagram Below
- Approx. Weight: 8mg
- Mounting Position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Characteristics	Symbol	Value	Unit
Total Power Dissipation on FR-5 Board ⁽¹⁾	P _D	300	mW
Thermal Resistance Junction to Ambient Air ⁽¹⁾	R _{θJA}	305	°C/W
Forward Voltage @ IF=10mA	VF	0.9	V
Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C



NOTES:

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

BZX84C2V4~BZX84C75

Electrical Characteristics (Ratings at 25 °C ambient temperature unless otherwise specified).

Device	Marking	Zener Voltage Range Vz			Maximum Zener Impedance			Reverse Current I _r		Temperature Coefficient of Zener voltage @I _{zt} =5mA mV/°C	
					Z _{zt}	Z _{zk}					
		Min	Max	I _{zt}	Max	Max	I _{zk}	Max	VR		
		(V)	(V)	mA	Ω	Ω	mA	μA	V	Min	Max
BZX84C 2V4	Z11	2.20	2.60	5	100	600	1.0	50.0	1.0	-3.5	0.0
BZX84C 2V7	Z12	2.50	2.90	5	100	600	1.0	20.0	1.0	-3.5	0.0
BZX84C 3V0	Z13	2.80	3.20	5	95	600	1.0	10.0	1.0	-3.5	0.0
BZX84C 3V3	Z14	3.10	3.50	5	95	600	1.0	5.0	1.0	-3.5	0.0
BZX84C 3V6	Z15	3.40	3.80	5	90	600	1.0	5.0	1.0	-3.5	0.0
BZX84C 3V9	Z16	3.70	4.10	5	90	600	1.0	3.0	1.0	-3.5	0.0
BZX84C 4V3	Z17	4.00	4.60	5	90	600	1.0	3.0	1.0	-3.5	0.0
BZX84C 4V7	Z1	4.40	5.00	5	80	500	1.0	3.0	2.0	-3.5	0.2
BZX84C 5V1	Z2	4.80	5.40	5	60	480	1.0	2.0	2.0	-2.7	1.2
BZX84C 5V6	Z3	5.20	6.00	5	40	400	1.0	1.0	2.0	-2.0	2.5
BZX84C 6V2	Z4	5.80	6.60	5	10	150	1.0	3.0	4.0	0.4	3.7
BZX84C 6V8	Z5	6.40	7.20	5	15	80	1.0	2.0	4.0	1.2	4.5
BZX84C 7V5	Z6	7.00	7.90	5	15	80	1.0	1.0	5.0	2.5	5.3
BZX84C 8V2	Z7	7.70	8.70	5	15	80	1.0	0.7	5.0	3.2	6.2
BZX84C 9V1	Z8	8.50	9.60	5	15	100	1.0	0.5	6.0	3.8	7.0
BZX84C 10	Z9	9.40	10.60	5	20	150	1.0	0.2	7.0	4.5	8.0
BZX84C 11	Y1,	10.40	11.60	5	20	150	1.0	0.1	8.0	5.4	9.0
BZX84C 12	Y2,	11.40	12.70	5	25	150	1.0	0.1	8.0	6.0	10.0
BZX84C 13	Y3	12.40	14.10	5	30	170	1.0	0.1	8.0	7.0	11.0
BZX84C 15	Y4	13.80	15.60	5	30	200	1.0	0.1	10.5	9.2	13.0
BZX84C 16	Y5	15.30	17.10	5	40	200	1.0	0.1	11.2	10.4	14.0
BZX84C 18	Y6,	16.80	19.10	5	45	225	1.0	0.1	12.6	12.4	16.0
BZX84C 20	Y7	18.80	21.20	5	55	225	1.0	0.1	14.0	14.4	18.0
BZX84C 22	Y8	20.80	23.30	5	55	250	1.0	0.1	15.4	16.4	20.0
BZX84C 24	Y9	22.80	25.60	5	70	250	1.0	0.1	16.8	18.4	22.0
BZX84C 27	Y10	25.10	28.90	2	80	300	0.5	0.1	18.9	21.4	25.3
BZX84C 30	Y11,	28.00	32.00	2	80	300	0.5	0.1	21.0	24.4	29.4
BZX84C 33	Y12	31.00	35.00	2	80	325	0.5	0.1	23.1	27.1	33.4
BZX84C 36	Y13	34.00	38.00	2	90	350	0.5	0.1	25.2	30.4	37.4
BZX84C 39	Y14	37.00	41.00	2	130	350	0.5	0.1	27.3	33.4	41.2
BZX84C 43	Y15	40.00	46.00	2	100	700	1.0	0.1	32.0	10.0	12.0
BZX84C 47	Y16	44.00	50.00	2	100	750	1.0	0.1	35.0	10.0	12.0
BZX84C 51	Y17	48.00	54.00	2	125	750	1.0	0.1	38.0	10.0	12.0
BZX84C 56	Y18	52.00	60.00	2	135	700	1.0	0.1	39.0	10.0	12.0
BZX84C 62	Y19	58.00	66.00	2	200	1000	1.0	0.2	47.0	10.0	12.0
BZX84C 68	Y20	64.00	72.00	2	250	1000	1.0	0.2	52.0	10.0	12.0
BZX84C 75	Y21,	70.00	79.00	2	300	1000	1.0	0.2	57.0	10.0	12.0

STANDARD VOLTAGE TOLERANCE IS ± 5% AND :

BZX84C2V4~BZX84C75

% U H D N G R Z Q F K D U D F W F H Q Y L D Q W L S F Q V H G

BZX84C2V4~BZX84C75

3UHFDXWLRQV 3&% 'HVLJQ
5HFRPPHQGHG ODQG GLPHQVLRQV IRU 627 GLRGH (OHP

The cruve graph is for reference only, can't be the basis for judgment

BZX84C2V4~BZX84C75**Disclaimer**

- Reproducing and modifying information of the document is prohibited without permission from EDA International Inc..
- EDA International Inc. reserves the rights to make changes of the content herein the document anytime without notification.
- EDA International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- EDA International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. EDA International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify EDA International Inc. for any damages resulting from such improper use or sale.
- The customer is responsible for verifying whether a specific product with the characteristics described in the product specification is suitable for a specific application. The parameters or specifications provided in the data sheet may vary in different applications, and performance may change over time. All operating parameters, including typical parameters, must be verified by the customer's technical experts for each customer application.
- Since EDA uses lot number as the tracking base, please provide the lot number for tracking when complaining.