

Technical Data Data Sheet N0199, Rev. B

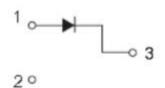
RoHS

BZX84C2V4-BZX84C51 ZENER DIODE



- 2.4V- 51V Nominal Zener Voltage
- **Designed for Surface Mount Application**
- Plastic Material UL Recognition Flammability
- "-A" is an AEC-Q101 qualified device
- This is a Halogen Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Schematic & Pin Configuration



Mechanical Characteristics

- Case: SOT-23, Molded Plastic
- Terminals: Plated leads Solderable per MIL-STD-750, Method 2026
- **Mounting Position: Any**
- Weight: 0.008g

Maximum Ratings@T_A=25°C unless otherwise specified

Parameter	Symbol	Value	Units
Power Dissipation	P _D	350	mW
Typical Thermal Resistance, Junction to Ambient	R _{θJA}	357	°C/W
Operating Junction and Storage Temperature Range	Tj,Tstg	-55 to 150	°C

http://www.smc-diodes.com - sales@ smc-diodes.com •



Technical Data Data Sheet N0199, Rev. B

RoHS HF

Electrical Characteristics @T_A=25°C unless otherwise specified

Part Number	Marking	Nominal Zener Voltage Max. Zener Impedance				ce	Max.Reverse Leakage Current			
		104.03	z(V) @ Izt			IR @ VR				
		Nom.	Min.	Max.	Ohm	mA	Ohm	mA	μA	V
BZX84C2V4	W1/Z11	2.4	2.28	2.52	100	5	600	1	50	1.0
BZX84C2V7	W2/Z12	2.7	2.5	2.9	100	5	600	1	20	1.0
BZX84C3V0	W3/Z13	3	2.8	3.2	95	5	600	1	10	1.0
BZX84C3V3	W4/Z14	3.3	3.1	3.5	95	5	600	1	5	1.0
BZX84C3V6	W5/Z15	3.6	3.4	3.8	90	5	600	1	5	1.0
BZX84C3V9	W6/Z16	3.9	3.7	4.1	90	5	600	1	3	1.0
BZX84C4V3	W7/Z17	4.3	4	4.6	90	5	600	1	3	1.0
BZX84C4V7	W8/Z1	4.7	4.4	5	80	5	500	1	3	2.0
BZX84C5V1	W9/Z2	5.1	4.8	5.4	60	5	480	1	2	2.0
BZX84C5V6	WA/Z3	5.6	5.2	6	40	5	400	1	1	2.0
BZX84C6V2	WB/Z4	6.2	5.8	6.6	10	5	150	1	3	4.0
BZX84C6V8	WC/Z5	6.8	6.4	7.2	15	5	80	1	2	4.0
BZX84C7V5	WD/Z6	7.5	7	7.9	15	5	80	1	1	5.0
BZX84C8V2	WE/Z7	8.2	7.7	8.7	15	5	80	1	0.7	5.0
BZX84C9V1	WF/Z8	9.1	8.5	9.6	15	5	100	1	0.5	6.0
BZX84C10	WG/Z9	10	9.4	10.6	20	5	150	1	0.2	7.0
BZX84C11	WH/Y1	11	10.4	11.6	20	5	150	1	0.1	8.0
BZX84C12	WI/Y2	12	11.4	12.7	25	5	150	1	0.1	8.0
BZX84C13	WK/Y3	13	12.4	14.1	30	5	170	1	0.1	8.0
BZX84C15	WL/Y4	15	13.8	15.6	30	5	200	1	0.1	10.5
BZX84C16	WM /Y5	16	15.3	17.1	40	5	200	1	0.1	11.2
BZX84C18	WN/Y6	18	16.8	19.1	45	5	225	1	0.1	12.6
BZX84C20	WO/Y7	20	18.8	21.2	55	5	225	1	0.1	14.0
BZX84C22	WP/Y8	22	20.8	23.3	55	5	250	1	0.1	15.4
BZX84C24	WR/Y9	24	22.8	25.6	70	5	250	1	0.1	16.8
BZX84C27	WS/Y10	27	25.1	28.9	80	2	300	1	0.1	18.9
BZX84C30	WT /Y11	30	28	32	80	2	300	1	0.1	21.0
BZX84C33	WU/Y12	33	31	35	80	2	325	1	0.1	23.1
BZX84C36	WW/Y13	36	34	38	90	2	350	1	0.1	25.2
BZX84C39	WX/Y14	39	37	41	130	2	350	1	0.1	27.3
BZX84C43	WY/Y15	43	40.85	45.15	150	5	375	1	0.1	30.10
BZX84C47	WZ/Y16	47	44.65	49.35	170	5	375	1	0.1	32.90
BZX84C51	XA/Y17	51	48.45	53.55	100	5	400	1	0.1	35.70

• China - Germany - Korea - Singapore - United States •

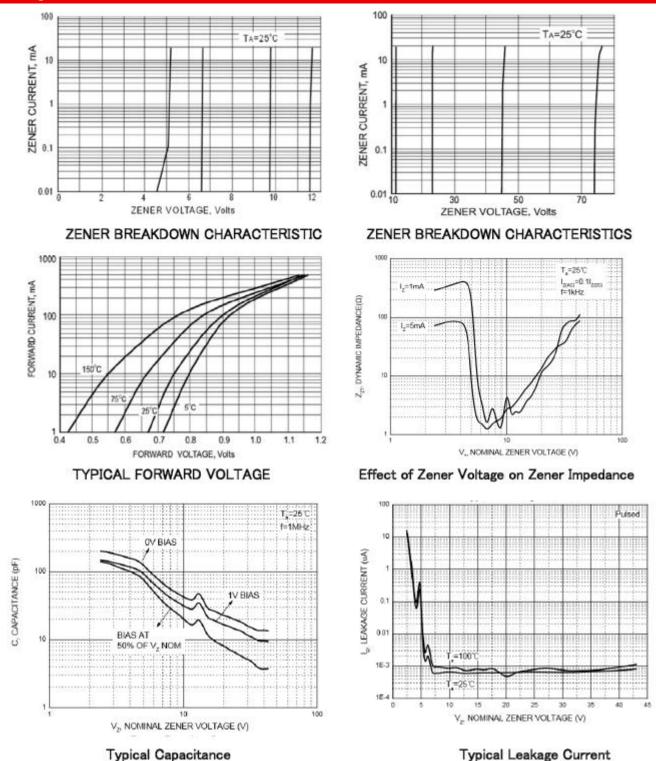
• http://www.smc-diodes.com - sales@ smc-diodes.com •



Technical Data Data Sheet N0199, Rev. B

Ratings and Characteristics Curves



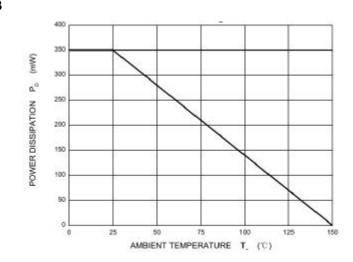


- China Germany Korea Singapore United States •
- http://www.smc-diodes.com sales@ smc-diodes.com •



Technical Data Data Sheet N0199, Rev. B





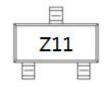
POWER DISSIPATION VS. AMBIENT TEMP

Ordering Information

Device	Package	Shipping
BZX84C2V4- BZX84C51	SOT-23	3000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Mar	king l	Diagram

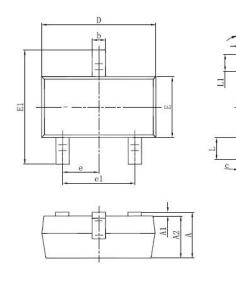


Z11 = Marking Code

Note: If date code is before 2016 year, please contact with factory about marking.

0.25

Mechanical Dimensions SOT-23



OVMDOL	Millim	neters	Inches		
SYMBOL	MIN.	MAX.	MIN.	MAX.	
A	0.890	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
с	0.076	0.170	0.003	0.007	
D	2.650	3.050	0.104	0.120	
E	1.190	1.400	0.047	0.055	
E1	2.100	2.550	0.083	0.100	
е	0.950	TYP.	0.037 TYP.		
e1	1.780	2.050	0.070	0.081	
L	0.550	REF.	0.022 REF.		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	

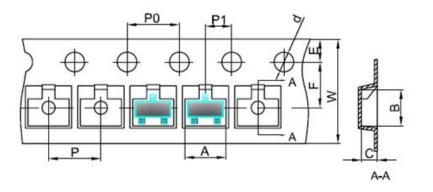
- China Germany Korea Singapore United States •
- http://www.smc-diodes.com sales@ smc-diodes.com •



Technical Data Data Sheet N0199, Rev. B

RoHS HF

Carrier Tape Specification SOT-23



SYMBOL	Millimeters			
STMBOL	Min.	Max.		
Α	3.05	3.25		
В	2.67	2.87		
C	1.12	1.32		
d	1.40	1.60		
E	1.65	1.85		
F	3.40	3.60		
Р	3.90	4.10		
P0	3.90	4.10		
P1	1.90	2.10		
W	7.90	8.30		

DISCLAIMER:

1- The information given herein, including the specifications and dimensions, is subject to change without prior notice to improve product characteristics. Before ordering, purchasers are advised to contact the SMC Diode Solutions sales department for the latest version of the datasheet(s).

2- In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, medical equipment, and safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangement.

3- In no event shall SMC Diode Solutions be liable for any damages that may result from an accident or any other cause during operation of the user's units according to the datasheet(s). SMC Diode Solution assumes no responsibility for any intellectual property claims or any other problems that may result from applications of information, products or circuits described in the datasheets.
4- In no event shall SMC Diode Solutions be liable for any failure in a semiconductor device or any secondary damage resulting from use

at a value exceeding the absolute maximum rating. 5- No license is granted by the datasheet(s) under any patents or other rights of any third party or SMC Diode Solutions.

6- The datasheet(s) may not be reproduced or duplicated, in any form, in whole or part, without the expressed written permission of SMC Diode Solutions.

7- The products (technologies) described in the datasheet(s) are not to be provided to any party whose purpose in their application will hinder maintenance of international peace and safety nor are they to be applied to that purpose by their direct purchasers or any third party. When exporting these products (technologies), the necessary procedures are to be taken in accordance with related laws and regulations..

http://www.smc-diodes.com - sales@ smc-diodes.com -

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Zener Diodes category:

Click to view products by Sangdest Microelectronic manufacturer:

Other Similar products are found below :

MMSZ5245BS-7-F RKZ13B2KG#P1 RKZ5.6B2KJ#R1 EDZTE6113B EDZTE6116B EDZTE616.8B 1N747A 1N966B NTE5116A NTE5121A NTE5139A NTE5147A NTE5152A NTE5155A NTE5156A NTE5164A JANS1N4974US SMAJ4764A-TP RKZ5.1BKU#P6 3SMAJ5946B-TP 3SMAJ5950B-TP 3SMBJ5920B-TP 3SMBJ5925B-TP TDZTR24 441774C MMSZ4678-TP MMSZ5232BQ-13-F BZG04-36 BZG05C9V1-HE3-TR HZM30NBTR-E UDZTE-175.1B 3SMAJ5945B-TP 3SMAJ5947B-TP 3SMBJ5941B-TP DL4746A-TP RKZ18B2KK#R1 RKZ10B2KL#R1 RKZ6.8B2KL#R1 RKZ8.2B2KL#R1 DZ2S240M0L SMAZ27-TP SMBZ5920B-E3/52 ZMM3.0 RD16UM-T1-A RD39S-T1-A RD9.1S-T1-A RD10S-T1-A RD20S-T1-A RD2.2S-T1-A RD2.7UM-T1-A