



BZT52B2V4S-BZT52B39S ZENER DIODES



Features

- Planar Die Construction
- General Purpose, Medium Current
- Ideally Suited for Automated Assembly Processes
- Available in Lead Free Version
- 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: SOD-323, Molded plastic
- Terminals: Plated Leads Solderable per MIL-STD-202,
 - Method 208
- Polarity: Cathode Band
- Weight: 0.04 grams(approx)

Maximum Ratings @T_A=25°C unless otherwise specified

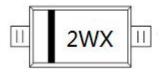
Characteristic	Symbol	Value	Units
Forward Voltage (Note 2) @ I _F = 10mA	V _F	0.9	V
Power Dissipation (Note 1)	Po	200	mW
Thermal Resistance from Junction to Ambient	Roja	625	°C/W
Junction Temperature	TJ	150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

Ordering Information

Device	Package	Shipping
BZT52B2V4S- BZT52B39S	SOD-323	3000pcs / reel
BZT52B2V4STR- BZT52B39STR	SOD-323	3000pcs / reel

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

Marking Diagram



2WX = Marking Code

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Electrical Characteristics @TA=25°C unless otherwise specified

Type Type Number Code		Zene	Zener ∀oltage Range (Note 2)			Maximum Zener Impedance (Note 3)			Maximum Reverse Current		Typical Temperature Coefficent @lzrc		Test Current
			Vz@lzt		lzī	Zzt@lzt	Zzk@lzk	lzĸ	I _R	VR	m∖	/°C	
		Nom(√)	Min(∨)	Max(√)	mΑ		Ω	mΑ	μА	V	Min	Max	mΑ
BZT52B2V4S	2VVX	2.4	2.35	2.45	5	100	600	1.0	50	1.0	-3.5	0	5
BZT52B2V7S	2W1	2.7	2.65	2.75	5	100	600	1.0	20	1.0	-3.5	0	5
BZT52B3V0S	2W2	3.0	2.94	3.06	5	95	600	1.0	10	1.0	-3.5	0	5
BZT52B3V3S	2W3	3.3	3.23	3.37	5	95	600	1.0	5	1.0	-3.5	0	5
BZT52B3V6S	2\\4	3.6	3.53	3.67	5	90	600	1.0	5	1.0	-3.5	0	5
BZT52B3V9S	2W5	3.9	3.82	3.98	5	90	600	1.0	3	1.0	-3.5	0	5
BZT52B4V3S	20/6	4.3	4.21	4.39	5	90	600	1.0	3	1.0	-3.5	0	5
BZT52B4V7S	2\\	4.7	4.61	4.79	5	80	500	1.0	3	2.0	-3.5	0.2	5
BZT52B5V1S	20/8	5.1	5.00	5.20	5	60	480	1.0	2	2.0	-2.7	1.2	5
BZT52B5V6S	2009	5.6	5.49	5.71	5	40	400	1.0	1	2.0	-2.0	2.5	5
BZT52B6V2S	2WA	6.2	6.08	6.32	5	10	150	1.0	3	4.0	0.4	3.7	5
BZT52B6V8S	2WB	6.8	6.66	6.94	5	15	80	1.0	2	4.0	1.2	4.5	5
BZT52B7V5S	2WC	7.5	7.35	7.65	5	15	80	1.0	1	5.0	2.5	5.3	5
BZT52B8V2S	2WD	8.2	8.04	8.36	5	15	80	1.0	0.7	5.0	3.2	6.2	5
BZT52B9V1S	2WE	9.1	8.92	9.28	5	15	100	1.0	0.5	6.0	3.8	7.0	5
BZT52B10S	2WF	10	9.80	10.20	5	20	150	1.0	0.2	7.0	4.5	8.0	5
BZT52B11S	2WG	11	10.78	11.22	5	20	150	1.0	0.1	8.0	5.4	9.0	5
BZT52B12S	2WH	12	11.76	12.24	5	25	150	1.0	0.1	8.0	6.0	10.0	5
BZT52B13S	2VM	13	12.74	13.26	5	30	170	1.0	0.1	8.0	7.0	11.0	5
BZT52B15S	2WJ	15	14.70	15.30	5	30	200	1.0	0.1	10.5	9.2	13.0	5
BZT52B16S	2WK	16	15.68	16.32	5	40	200	1.0	0.1	11.2	10.4	14.0	5
BZT52B18S	2WL	18	17.64	18.36	5	45	225	1.0	0.1	12.6	12.4	16.0	5
BZT52B20S	2VVM	20	19.60	20.40	5	55	225	1.0	0.1	14.0	14.4	18.0	5
BZT52B22S	2WN	22	21.56	22.44	5	55	250	1.0	0.1	15.4	16.4	20.0	5
BZT52B24S	2W0	24	23.52	24.48	5	70	250	1.0	0.1	16.8	18.4	22.0	5
BZT52B27S	2WP	27	26.46	27.54	2	80	300	0.5	0.1	18.9	21.4	25.3	2
BZT52B30S	2WQ	30	29.40	30.60	2	80	300	0.5	0.1	21.0	24.4	29.4	2
BZT52B33S	2WR	33	32.34	33.66	2	80	325	0.5	0.1	23.1	27.4	33.4	2
BZT52B36S	2WS	36	35.28	36.72	2	90	350	0.5	0.1	25.2	30.4	37.4	2
BZT52B39S	2WT	39	38.22	39.78	2	130	350	0.5	0.1	27.3	33.4	41.2	2

Notes: 1. Device mounted on ceramic PCB: 7.6mm x 9.4mm x 0.87mm with pad areas 25mm2 .

^{2.} Short duration test pulse used to minimize self-heating effect.

^{3.} f = 1kHz.

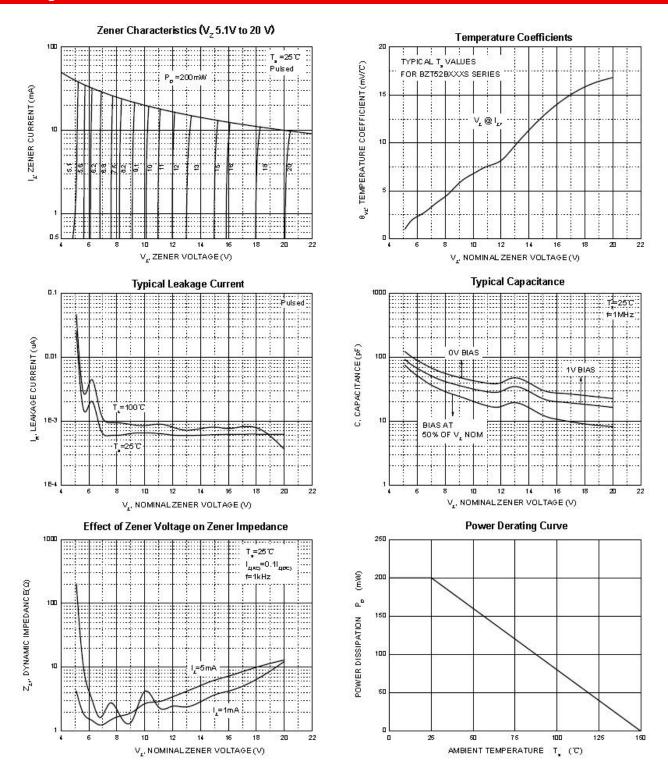
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Ratings and Characteristics Curves

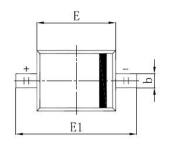


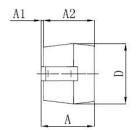
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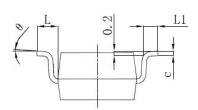




Mechanical Dimensions SOD-323

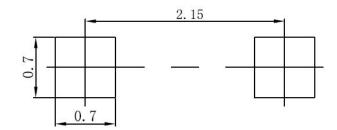






OVARDOL	Millin	neters	Inches			
SYMBOL	MIN. MAX.		MIN.	MAX.		
Α	-	1.000	-	0.039		
A1	0.000	0.100	0.000	0.004		
A2	0.800	0.900	0.031	0.035		
b	0.250	0.350	0.010	0.014		
С	0.080	0.150	0.003	0.006		
D	1.200	1.400	0.047	0.055		
E	1.600	1.800	0.063	0.071		
E1	2.500	2.700	0.098	0.106		
L	0.475	REF.	0.019 REF.			
L1	0.250	0.400	0.010	0.016		
θ	0°	8°	0°	8°		

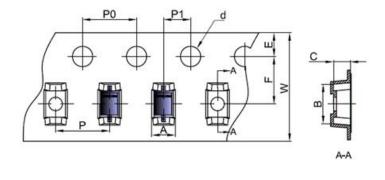
SOD-323 Suggested Pad Layout



Note:

- 1.Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.

Carrier Tape Specification SOD-323



SYMBOL	Millimeters				
STWIBOL	Min.	Max.			
В	2.85	2.95			
С	1.20	1.30			
d	1.40	1.60			
Е	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			

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