



Micro Commercial Components™

Micro Commercial Components  
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# BZT52B4V3S THRU BZT52B39S

## Features

- Planar Die Construction
- 200mW Power Dissipation on Ceramic PCB
- General Purpose Medium Current
- Ideally Suited for Automated Assembly Processes
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

**200 mW  
Zener Diode  
4.3 to 39 Volts**

## Absolute Maximum Ratings

Symbol	Parameter	Rating	Unit
$P_D$	Power dissipation	200	mW
$T_J$	Junction Temperature	-65 to +175	°C
$T_{STG}$	Storage Temperature Range	-65 to +175	°C

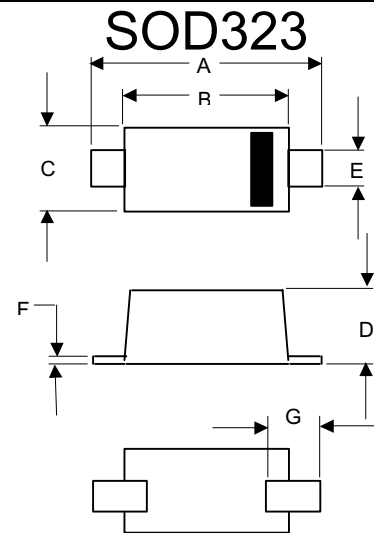
## Absolute Maximum Ratings

Symbol	Parameter	Rating	Unit
$R_{thJA}$	Thermal Resistance Junction to Ambient*	305	°C/W

\* Device mounted on ceramic PCB: 7.6mm x 9.4mm x 0.87mm with pad areas 25 mm<sup>2</sup>

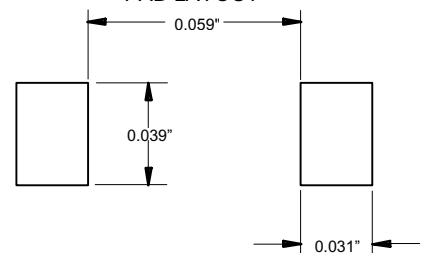
## Electrical Characteristics

Symbol	Parameter	Rating	Unit
$V_F$	Maximum Forward Voltage ( $I_F=10mA_{dc}$ )	0.9	V



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.068	.078	1.75	1.95	
C	.045	.054	1.15	1.35	
D	.027	.038	0.70	0.95	
E	.009	.014	0.25	0.35	
F	.002	.006	0.05	0.15	
G	.012	---	0.30	---	

### SUGGESTED SOLDER PAD LAYOUT



**Electrical Characteristics@25°C**

Type	ZENER VOLTAGE $V_Z^{(1)}$ VOLTS			Maximum Zener Impedance <sup>(2)</sup> $Z_{ZT}$ (OHMS)		Maximum Zener Impedance <sup>(2)</sup> $Z_{ZK}$ (OHMS)		REVERSE CURRENT $I_R(\text{Max})@V_R$		Typical Temperature Coefficient @ $I_{ZTC}$		Marking
	Min.	Nom.	Max.	$I_{ZT}$ (mA)	Max.	$I_{ZK}$ (mA)	Max.	uA	V	mV/°C		
BZT52B4V3S	4.21	4.3	4.39	5	90	1	600	3	1	-3.5	0	W7
BZT52B4V7S	4.61	4.7	4.79	5	80	1	500	3	2	-3.5	0.2	W8
BZT52B5V1S	5.0	5.1	5.2	5	60	1	480	2	2	-2.7	1.2	W9
BZT52B5V6S	5.49	5.6	5.71	5	40	1	400	1	2	-2	2.5	WA
BZT52B6V2S	6.08	6.2	6.32	5	10	1	150	3	4	0.4	3.7	WB
BZT52B6V8S	6.66	6.8	6.94	5	15	1	80	2	4	1.2	4.5	WC
BZT52B7V5S	7.35	7.5	7.65	5	15	1	80	1	5	2.5	5.3	WD
BZT52B8V2S	8.04	8.2	8.36	5	15	1	80	0.7	5	3.2	6.2	WE
BZT52B9V1S	8.92	9.1	9.28	5	15	1	100	0.5	6	3.8	7	WF
BZT52B10S	9.8	10	10.2	5	20	1	150	0.2	7	4.5	8	WG
BZT52B11S	10.78	11	11.22	5	20	1	150	0.1	8	5.4	9	WH
BZT52B12S	11.76	12	12.24	5	25	1	150	0.1	8	6	10	WI
BZT52B13S	12.74	13	13.3	5	30	1	170	0.1	8	7	11	WK
BZT52B15S	14.7	15	15.3	5	30	1	200	0.1	10.5	9.2	13	WL
BZT52B16S	15.68	16	16.3	5	40	1	200	0.1	11.2	10.4	14	WM
BZT52B18S	17.6	18	18.4	5	45	1	225	0.1	12.6	12.4	16	WN
BZT52B20S	19.6	20	20.4	5	55	1	225	0.1	14	14.4	18	WO
BZT52B22S	21.56	22	22.44	5	55	1	250	0.1	15.4	16.4	20	WP
BZT52B24S	23.52	24	24.5	5	70	1	250	0.1	16.8	18.4	22	WR
BZT52B27S	26.46	27	27.54	2	80	0.5	300	0.1	18.9	21.4	25.3	WS
BZT52B30S	29.4	30	30.6	2	80	0.5	300	0.1	21	24.4	29.4	WT
BZT52B33S	32.34	33	33.7	2	80	0.5	325	0.1	23.1	27.4	33.4	WU
BZT52B36S	35.28	36	36.72	2	90	0.5	350	0.1	25.2	30.4	37.4	WW
BZT52B39S	38.22	39	39.8	2	130	0.5	350	0.1	27.3	33.4	41.2	WX

(1) Device mounted on ceramic PCB: 7.6mm x 9.4mm x 0.87mm with pad areas 25 mm<sup>2</sup>

(2) f=1KHz



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