



Micro Commercial Components



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BZT52B3V0JS THRU BZT52B51JS

**200 mW
 Zener Diode
 3.0 to 51 Volts**

Features

- Planar Die Construction
- 200mW Power Dissipation
- General Purpose Medium Current
- Ideally Suited for Automated Assembly Processes
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

Absolute Maximum Ratings

Symbol	Parameter	Rating	Unit
P _D	Power dissipation*	200	mW
T _J	Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature Range	-55 to +150	°C

* Mounted on 5.0mm²(.013mm thick) land areas.

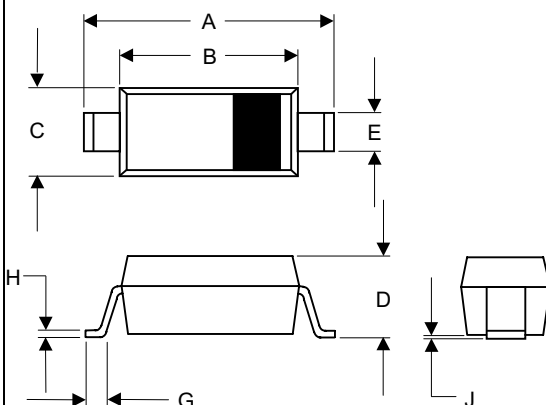
Absolute Maximum Ratings

Symbol	Parameter	Rating	Unit
R _{thJA}	Thermal Resistance Junction to Ambient*	625	°C/W

Electrical Characteristics

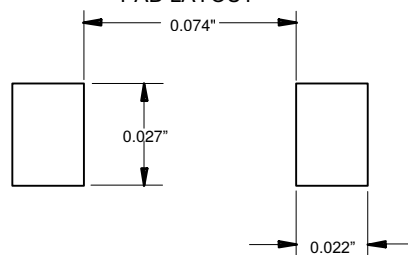
Symbol	Parameter	Rating	Unit
V _F	Maximum Forward Voltage (I _F =10mA _{dc})	0.9	V

SOD-323



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.063	.071	1.60	1.80	
C	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
E	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
H	.004	.010	0.10	0.25	
J	-----	.006	-----	0.15	

SUGGESTED SOLDER PAD LAYOUT



Electrical Characteristics@25°C

Part Number	Nominal Zener Voltage			Max. Zener Impedance				Max Reverse Leakage Current		Marking Code
	V _Z @ I _{ZT}			Z _{ZT} @ I _{ZT}		Z _{ZK} @ I _{ZK}		I _R @ V _R		
	Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	μA	V	
BZT52B3V0JS	3.0	2.94	3.06	89	5.0	564	1.00	9.0	1.0	2Z
BZT52B3V3JS	3.3	3.23	3.37	89	5.0	564	1.00	4.5	1.0	3Z
BZT52B3V6JS	3.6	3.53	3.67	84	5.0	564	1.00	4.5	1.0	4Z
BZT52B3V9JS	3.9	3.82	3.98	84	5.0	564	1.00	2.7	1.0	5Z
BZT52B4V3JS	4.3	4.21	4.39	84	5.0	564	1.00	2.7	1.0	6Z
BZT52B4V7JS	4.7	4.61	4.79	75	5.0	564	1.00	2.7	2.0	7Z
BZT52B5V1JS	5.1	5.00	5.20	60	5.0	480	1.00	2.0	2.0	2W8/8Z
BZT52B5V6JS	5.6	5.49	5.71	40	5.0	400	1.00	1.0	2.0	2W9/9Z
BZT52B6V2JS	6.2	6.08	6.32	10	5.0	150	1.00	3.0	4.0	2WA/AZ
BZT52B6V8JS	6.8	6.66	6.94	15	5.0	141	1.00	2.0	4.0	2WB/BZ
BZT52B7V5JS	7.5	7.35	7.65	15	5.0	80	1.00	1.0	5.0	2WC/CZ
BZT52B8V2JS	8.2	8.04	8.36	15	5.0	80	1.00	0.7	5.0	2WD/DZ
BZT52B9V1JS	9.1	8.92	9.28	15	5.0	100	1.00	0.5	6.0	2WE/EZ
BZT52B10JS	10	9.80	10.20	20	5.0	150	1.00	0.2	7.0	2WF/FZ
BZT52B11JS	11	10.78	11.22	20	5.0	150	1.00	0.1	8.0	2WG/GZ
BZT52B12JS	12	11.76	12.24	25	5.0	150	1.00	0.1	8.0	2WH/HZ
BZT52B13JS	13	12.74	13.26	30	5.0	170	1.00	0.1	8.0	2WI/IJZ
BZT52B15JS	15	14.70	15.30	30	5.0	200	1.00	0.1	10.5	2WJ/KZ
BZT52B16JS	16	15.68	16.32	40	5.0	200	1.00	0.1	11.2	2WK/LZ
BZT52B18JS	18	17.64	18.36	45	5.0	225	1.00	0.1	12.6	2WL/MZ
BZT52B20JS	20	19.60	20.40	55	5.0	225	1.00	0.1	14.0	2WM/NZ
BZT52B22JS	22	21.56	22.44	51	5.0	235	1.00	0.045	15.4	PZ
BZT52B24JS	24	23.52	24.48	65	5.0	235	1.00	0.045	16.8	RZ
BZT52B27JS	27	26.46	27.54	75	5.0	282	0.50	0.045	18.9	SZ
BZT52B30JS	30	29.40	30.60	75	5.0	282	0.50	0.045	21.0	TZ
BZT52B33JS	33	32.34	33.66	75	5.0	306	0.50	0.045	23.0	UZ
BZT52B36JS	36	35.28	36.72	84	5.0	329	0.50	0.045	25.2	VZ
BZT52B39JS	39	38.22	39.78	122	5.0	329	0.50	0.045	27.3	WZ
BZT52B43JS	43	42.14	43.86	141	5.0	353	0.50	0.045	30.1	XZ
BZT52B47JS	47	46.06	47.94	160	5.0	353	0.50	0.045	33.0	YZ
BZT52B51JS	51	49.98	52.02	169	5.0	376	0.50	0.045	35.7	ZZ



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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