

BZX7B2V2 thru BZX7B39

Zener Diodes

V_z Range: 2.2V to 39V Power Dissipation: 100mW

Features

- Total power dissipation: max.100mW
- Small plastic package suitable for surface mounted design
- High reliability
- Halogen and Antimony Free (HAF), RoHS compliant



SOD-723



Schematic Diagram

Absolute Maximum Ratings and Characteristics

(T_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Power Dissipation	P _{tot}	100	mW
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	-55 to +150	°C
Max. Forward Voltage at I _F =10mA	V _F	0.9	V

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Electrical Characteristics (T_A=25°C unless otherwise noted)

Part Number	Marking Code	Zener Voltage Range ¹			Maximum Dynamic Impedance ²		Maximum Reverse Leakage Current	
		I _{ZT}	V _{ZT}		Z _{ZT}	I _{ZT}	I _R	V _R
		mA	Min (V)	Max (V)	Ω	mA	μA	V
BZX7B2V2	A9	5	2.1	2.4	100	5	120	0.7
BZX7B2V4	B9	5	2.3	2.65	100	5	120	1
BZX7B2V7	C9	5	2.65	2.95	110	5	120	1
BZX7B3V0	D9	5	2.95	3.25	120	5	50	1
BZX7B3V3	E9	5	3.25	3.55	120	5	20	1
BZX7B3V6	F9	5	3.6	3.845	100	5	10	1
BZX7B3V9	G9	5	3.89	4.16	100	5	5	1
BZX7B4V3	H9	5	4.17	4.43	100	5	5	1
BZX7B4V7	J9	5	4.55	4.75	100	5	2	1
BZX7B5V1	K9	5	4.98	5.2	80	5	2	1.5
BZX7B5V6	L9	5	5.49	5.73	60	5	1	2.5
BZX7B6V2	M9	5	6.06	6.33	60	5	1	3
BZX7B6V8	N9	5	6.65	6.93	40	5	0.5	3.5
BZX7B7V5	P9	5	7.28	7.6	30	5	0.5	4
BZX7B8V2	Q9	5	8.02	8.36	30	5	0.5	5
BZX7B9V1	R9	5	8.85	9.23	30	5	0.5	6
BZX7B10	S9	5	9.77	10.21	30	5	0.1	7
BZX7B11	T9	5	10.76	11.22	30	5	0.1	8
BZX7B12	U9	5	11.74	12.24	30	5	0.1	9
BZX7B13	V9	5	12.91	13.49	37	5	0.1	10
BZX7B15	W9	5	14.34	14.98	42	5	0.1	11
BZX7B16	X9	5	15.85	16.51	50	5	0.1	12
BZX7B18	Y9	5	17.56	18.35	65	5	0.1	13
BZX7B20	Z9	5	19.52	20.39	85	5	0.1	15
BZX7B22	A0	5	21.54	22.47	100	5	0.1	17
BZX7B24	B0	5	23.72	24.78	120	5	0.1	19
BZX7B27	C0	5	26.19	27.53	150	5	0.1	21
BZX7B30	D0	5	29.19	30.69	200	5	0.1	23
BZX7B33	E0	5	32.15	33.79	250	5	0.1	25
BZX7B36	F0	5	35.07	36.87	300	5	0.1	27
BZX7B39	G0	5	37	41	100	5	2	30

Note :

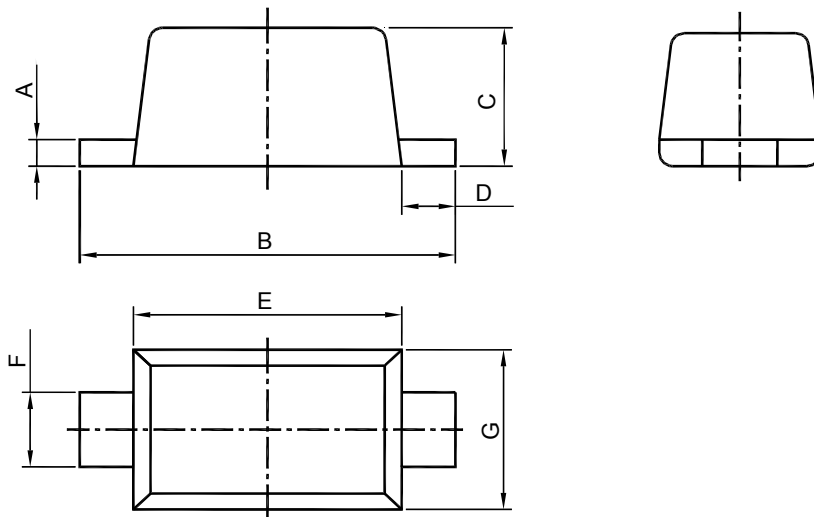
1. V_Z is tested with pulses (20ms).
2. Z_{ZT} is measured at I_Z by given a very small A.C. current signal.

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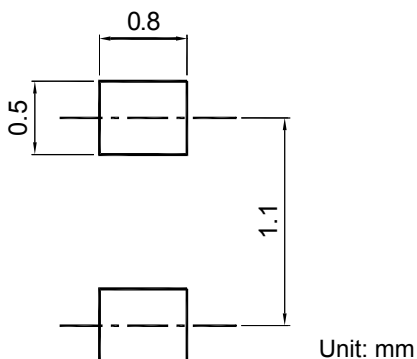
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Package Outline Dimensions (SOD-723)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.05	0.15	0.002	0.006
B	1.30	1.50	0.051	0.059
C	0.47	0.57	0.019	0.022
D	0.15	0.25	0.006	0.010
E	0.90	1.10	0.035	0.043
F	0.23	0.33	0.009	0.013
G	0.50	0.70	0.020	0.028

Recommended Pad Layout



Order Information

Device	Package	Quantity	Carrier
BZX7Bxx	SOD-723	5,000pcs / Reel	Tape & Reel

For more information, please contact us at: inquiry@goodarksemi.com