

BZX55B2V4~BZX55B75

AXIAL LEAD ZENER DIODES

VOLTAGE 2.4 to 75 Volts **POWER** 500 mWatts

DO-35 Unit : inch(mm)

FEATURES

- Planar Die construction
- 500mW Power Dissipation
- Ideally Suited for Automated Assembly Processes
- Lead free in compliance with EU RoHS 2011/65/EU directive

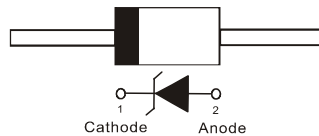
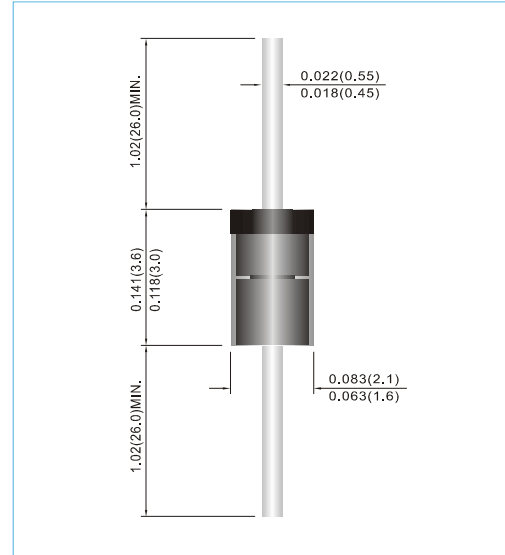
MECHANICAL DATA

- Case: Molded glass DO-35
- Terminals: Solderable per MIL-STD-750, Method 2026
- Packing information

B/P - 2K per Bulk box

T/R - 10K per 15" Reel

T/B - 5K per horiz. tape & Ammo box



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

Parameter	Symbol	Value	Units
Power Dissipation at Tamb = 25 °C	P _{TOT}	500	mW
Junction Temperature	T _J	175	°C
Storage Temperature Range	T _{STG}	-65 to +175	°C

Valid provided that leads at a distance of 8mm from case are kept at ambient temperature.

Parameter	Symbol	Min.	Typ.	Max.	Units
Thermal Resistance Junction to Ambient Air	R _{θJA}	--	--	0.3	°C/mW
Forward Voltage at I _F = 100mA	V _F	--	--	1	V

Valid provided that leads at a distance of 10 mm from case are kept at ambient temperature.

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Part Number	Nominal Zener Voltage			Max. Zener Impedance				Max Reverse Leakage Current		Marking code
	Vz @ IzT			ZzT @ IzT		Zzk @ Izk		IR @ VR		
	Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	uA	V	
BZX55B2V4	2.4	2.35	2.45	85	5	600	1	50	1	BZX55B2V4
BZX55B2V7	2.7	2.65	2.75	85	5	600	1	10	1	BZX55B2V7
BZX55B3V0	3.0	2.94	3.06	85	5	600	1	4	1	BZX55B3V0
BZX55B3V3	3.3	3.23	3.37	85	5	600	1	2	1	BZX55B3V3
BZX55B3V6	3.6	3.53	3.67	85	5	600	1	2	1	BZX55B3V6
BZX55B3V9	3.9	3.82	3.98	85	5	600	1	2	1	BZX55B3V9
BZX55B4V3	4.3	4.21	4.39	75	5	600	1	1	1	BZX55B4V3
BZX55B4V7	4.7	4.61	4.79	60	5	600	1	0.5	1	BZX55B4V7
BZX55B5V1	5.1	5.00	5.20	35	5	550	1	0.1	1	BZX55B5V1
BZX55B5V6	5.6	5.49	5.71	25	5	450	1	0.1	1	BZX55B5V6
BZX55B6V2	6.2	6.08	6.32	10	5	200	1	0.1	2	BZX55B6V2
BZX55B6V8	6.8	6.66	6.94	8	5	150	1	0.1	3	BZX55B6V8
BZX55B7V5	7.5	7.35	7.65	7	5	50	1	0.1	5	BZX55B7V5
BZX55B8V2	8.2	8.04	8.36	7	5	50	1	0.1	6	BZX55B8V2
BZX55B9V1	9.1	8.92	9.28	10	5	50	1	0.1	7	BZX55B9V1
BZX55B10	10	9.80	10.20	15	5	70	1	0.1	7.5	BZX55B10
BZX55B11	11	10.78	11.22	20	5	70	1	0.1	8.5	BZX55B11
BZX55B12	12	11.76	12.24	20	5	90	1	0.1	9	BZX55B12
BZX55B13	13	12.74	13.26	26	5	110	1	0.1	10	BZX55B13
BZX55B15	15	14.70	15.30	30	5	110	1	0.1	11	BZX55B15
BZX55B16	16	15.68	16.32	40	5	170	1	0.1	12	BZX55B16
BZX55B18	18	17.64	18.36	50	5	170	1	0.1	14	BZX55B18
BZX55B20	20	19.60	20.40	55	5	220	1	0.1	15	BZX55B20
BZX55B22	22	21.56	22.44	55	5	220	1	0.1	17	BZX55B22
BZX55B24	24	23.5	24.5	80	5	220	1	0.1	18	BZX55B24
BZX55B27	27	26.5	27.5	80	5	220	1	0.1	20	BZX55B27
BZX55B30	30	29.4	30.6	80	5	220	1	0.1	22	BZX55B30
BZX55B33	33	32.3	33.7	80	5	220	1	0.1	24	BZX55B33
BZX55B36	36	35.3	36.7	80	5	220	1	0.1	27	BZX55B36
BZX55B39	39	38.2	39.8	90	2.5	500	0.5	0.1	30	BZX55B39
BZX55B43	43	42.1	43.9	90	2.5	600	0.5	0.1	33	BZX55B43
BZX55B47	47	46.1	47.9	110	2.5	700	0.5	0.1	36	BZX55B47
BZX55B51	51	50	52	125	2.5	700	0.5	0.1	39	BZX55B51
BZX55B56	56	54.9	57.1	135	2.5	1000	0.5	0.1	43	BZX55B56
BZX55B62	62	60.8	63.2	150	2.5	1000	0.5	0.1	47	BZX55B62
BZX55B68	68	66.6	69.4	200	2.5	1000	0.5	0.1	51	BZX55B68
BZX55B75	75	73.5	76.5	250	2.5	1500	0.5	0.1	56	BZX55B75

STANDARD VOLTAGE TOLERANCE IS $\pm 2\%$ AND:

SUFFIX "A" FOR $\pm 1\%$

SUFFIX "B" FOR $\pm 2\%$

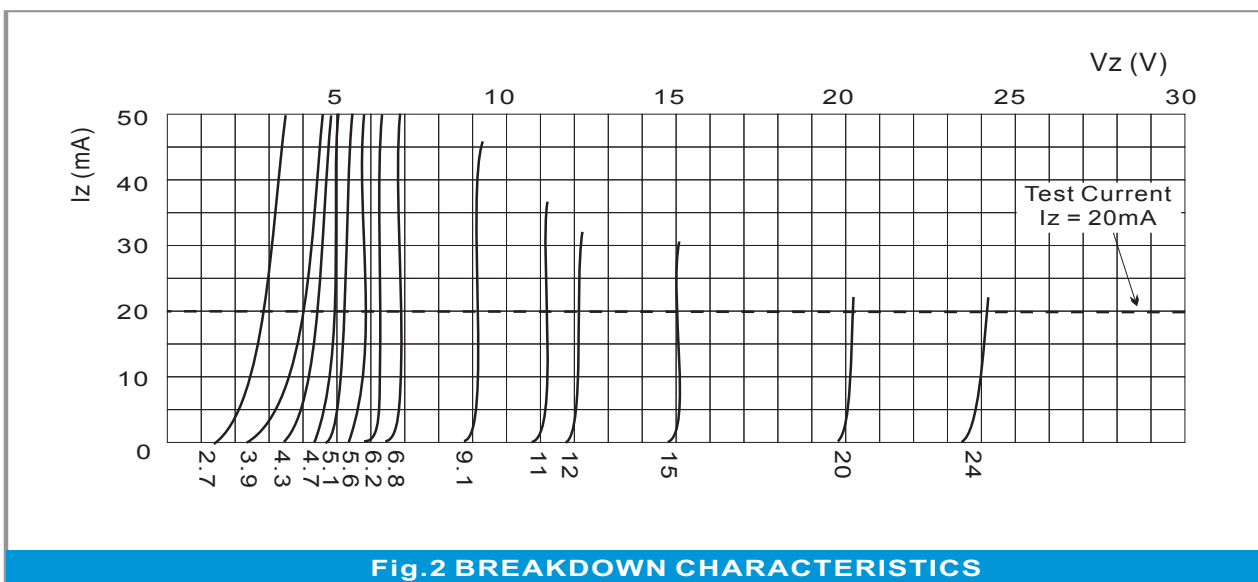
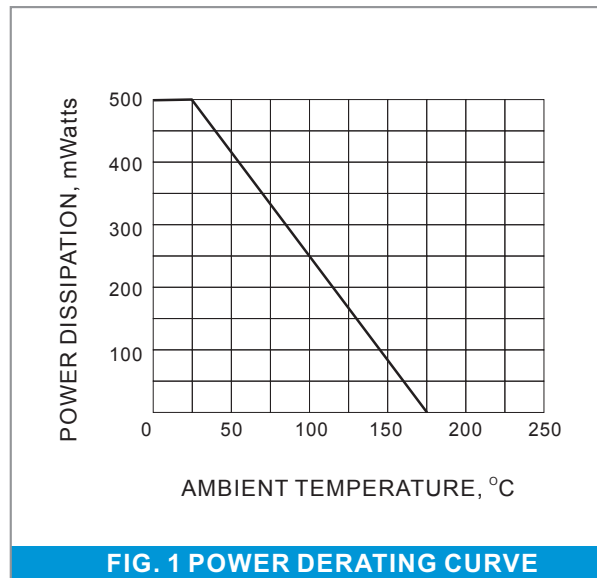
SUFFIX "C" FOR $\pm 5\%$

SUFFIX "D" FOR $\pm 20\%$

* MEASURED WITH PULSES $T_p=40$ mSec.

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RATING AND CHARACTERISTIC CURVES



BZX55B2V4~BZX55B75

Part No_packing code_Version

BZX55B2V4_AX_10001

BZX55B2V4_AY_10001

BZX55B2V4_R2_10001

BZX55B2V4_B0_10001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

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