



V_Z : 2.0 - 100 Volts

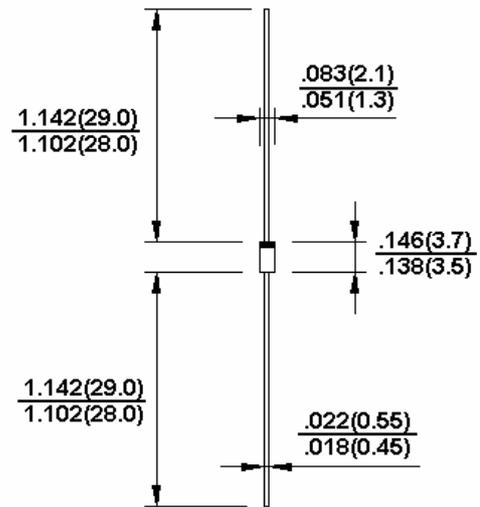
P_D : 500 mWatts

DO-35(GLASS)



Features

- ✧ Zener Voltage range 2.0 to 100 volts
- ✧ DO-35 package (JEDEC)
- ✧ Through-hole device type mounting
- ✧ Hermetically sealed glass
- ✧ Compression bonded construction
- ✧ All external surfaces are corrosion resistant and leads are readily solderable
- ✧ RoHS compliant
- ✧ Solder hot dip Tin(Sn) lead finish
- ✧ Cathode indicated by polarity band



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Maximum Ratings

Type Number	Symbol	Value	Units
Power Dissipation	P _d	500	mW
Maximum Forward Voltage @ I _F = 100mA	V _F	1.0	V
Storage Temperature Range	T _{STG}	-65 to + 200	°C
Operating Junction Temperature	T _J	+ 200	°C

These ratings are limiting values above which the serviceability of the diode may be impaired.



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

PART NUMBER	ZENER VOLTAGE RANGE ⁽¹⁾ at I _{ZT}		TEST CURRENT	MAXIMUM DYNAMIC RESISTANCE		TEST CURRENT	EFFECTIVE TEMP. COEFFICIENT		REVERSE CURRENT	REVERSE VOLTAGE
	V _Z (V)		I _{ZT}	@I _{ZT}	@I _{ZK}	I _{ZK}	%/ ^o C		I _R	V _R
	Min	Max	mA	OHMS	OHMS	mA	Min	Max	nA	V
BZX55B2V0	1.96	2.04	5	100	600	1	-0.09	-0.06	150000	1
BZX55B2V2	2.16	2.24	5	100	600	1	-0.09	-0.06	150000	1
BZX55B2V4	2.35	2.45	5	85	600	1	-0.09	-0.06	50000	1
BZX55B2V7	2.6	2.8	5	85	600	1	-0.09	-0.06	10000	1
BZX55B3V0	2.9	3.1	5	85	600	1	-0.08	-0.05	4000	1
BZX55B3V3	3.2	3.4	5	85	600	1	-0.08	-0.05	2000	1
BZX55B3V6	3.5	3.7	5	85	600	1	-0.08	-0.05	2000	1
BZX55B3V9	3.8	4.0	5	85	600	1	-0.08	-0.05	2000	1
BZX55B4V3	4.2	4.4	5	75	600	1	-0.06	-0.03	1000	1
BZX55B4V7	4.6	4.8	5	60	600	1	-0.05	0.02	500	1
BZX55B5V1	5.0	5.2	5	35	550	1	-0.02	0.02	100	1
BZX55B5V6	5.5	5.7	5	25	450	1	-0.05	0.05	100	1
BZX55B6V2	6.1	6.3	5	10	200	1	0.03	0.06	100	2
BZX55B6V8	6.7	6.9	5	8	150	1	0.03	0.07	100	3
BZX55B7V5	7.4	7.6	5	7	50	1	0.03	0.07	100	5
BZX55B8V2	8.1	8.4	5	7	50	1	0.03	0.08	100	6.2
BZX55B9V1	8.9	9.3	5	10	50	1	0.03	0.09	100	6.8
BZX55B10	9.8	10.2	5	15	70	1	0.03	0.11	100	7.5
BZX55B11	10.7	11.2	5	20	70	1	0.03	0.11	100	8.2
BZX55B12	11.7	12.2	5	20	90	1	0.03	0.11	100	9.1
BZX55B13	12.7	13.3	5	26	110	1	0.03	0.11	100	10
BZX55B15	14.7	15.3	5	30	110	1	0.03	0.11	100	11
BZX55B16	15.7	16.3	5	40	170	1	0.03	0.11	100	12
BZX55B18	17.6	18.4	5	40	170	1	0.03	0.11	100	13
BZX55B20	19.6	20.4	5	55	220	1	0.03	0.11	100	15
BZX55B22	21.5	22.4	5	55	220	1	0.03	0.11	100	16
BZX55B24	23.5	24.5	5	80	220	1	0.04	0.12	100	18
BZX55B27	26.5	27.5	5	80	220	1	0.04	0.12	100	20
BZX55B30	29	31	5	80	220	1	0.04	0.12	100	22
BZX55B33	32	34	5	80	220	1	0.04	0.12	100	24
BZX55B36	35	37	5	80	220	0.5	0.04	0.12	100	27
BZX55B39	38	40	2.5	90	500	0.5	0.04	0.12	100	30
BZX55B43	42	44	2.5	90	600	0.5	0.04	0.12	100	33
BZX55B47	46	48	2.5	110	700	0.5	0.04	0.12	100	36
BZX55B51	50	52	2.5	125	700	0.5	0.04	0.12	100	39
BZX55B56	55	57	2.5	135	1000	0.5	0.04	0.12	100	43
BZX55B62	61	63	2.5	150	1000	0.5	0.04	0.12	100	47
BZX55B68	67	69	2.5	200	1000	0.5	0.04	0.12	100	51
BZX55B75	74	77	2.5	250	1500	0.5	0.04	0.12	100	56
BZX55B82	80	84	2.5	300	2000	0.5	0.04	0.12	100	62
BZX55B91	89	93	2.5	450	5000	0.1	0.04	0.12	100	68
BZX55B100	98	100	2.5	450	5000	0.1	0.04	0.12	100	75

Notes:

- 1. Tolerance and voltage designation:** the type numbers listed have zener voltage as shown. Measured with pulses tp=5.0ms, BZX55B-----±2% of V_{Znom}, BZX55C-----±5% of V_{Znom}.
- 2. Specials available include:** nominal zener voltages between the voltages shown and tighter voltage, for detailed information on price, availability and delivery.
- 3. Zener voltage (V_Z) measurement:** the zener voltage is measured under pulse conditions such that T_J is more than 2°C above T_A.
- 4. Zener impedance (Z_Z) derivation:** zener impedance is derived from the 60-cycle ac voltage, which results when an ac current having an RMS value equal to 10% of the dc zener current (I_{ZT}) is superimposed to I_{ZT}.

PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
DO-35	5000/AMMO	100000	41X28.5X38	14.57	13.07