

Preliminary



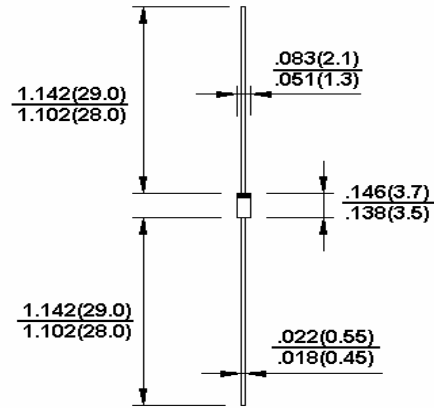
BZX79C2V0 – BZX79C75

500 mW Hermetically Sealed Glass Zener Voltage Regulators

DO-35

Features

- ◇ Zener voltage range 2.0 to 75 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.

Type Number	Symbol	Value	Units
Power Dissipation	P _d	500	mW
Maximum Forward Voltage @ I _F =100mA	V _F	1.5	V
Storage Temperature Range	T _{STG}	-65 to + 200	°C
Operating Junction Temperature	T _J	+ 200	°C

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

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

Type Number	V _Z @ I _{ZT} (Volts)		I _{ZT} mA	Z _{ZT} @ I _{ZT} Ohms Max	I _{ZK} mA	Z _{ZK} @ I _{ZK} Ohms	IR @ VR uA Max	VR V
	V _Z Min (V)	V _Z Max (V)						
BZX79C2V0	1.88	2.12	5	100	1.0	600	150	1.0
BZX79C2V2	2.08	2.33	5	100	1.0	600	150	1.0
BZX79C2V4	2.28	2.56	5	100	1.0	600	100	1.0
BZX79C2V7	2.51	2.89	5	100	1.0	600	75	1.0
BZX79C3V0	2.8	3.2	5	95	1.0	600	50	1.0
BZX79C3V3	3.1	3.5	5	95	1.0	600	25	1.0
BZX79C3V6	3.4	3.8	5	90	1.0	600	15	1.0
BZX79C3V9	3.7	4.1	5	90	1.0	600	10	1.0
BZX79C4V3	4.0	4.6	5	90	1.0	600	5	1.0
BZX79C4V7	4.4	5.0	5	80	1.0	500	3.0	2.0
BZX79C5V1	4.8	5.4	5	60	1.0	480	2.0	2.0
BZX79C5V6	5.2	6.0	5	40	1.0	400	1.0	2.0
BZX79C6V2	5.8	6.6	5	10	1.0	150	3.0	4.0
BZX79C6V8	6.4	7.2	5	15	1.0	80	2.0	4.0
BZX79C7V5	7.0	7.9	5	15	1.0	80	1.0	5.0
BZX79C8V2	7.7	8.7	5	15	1.0	80	0.7	5.0
BZX79C9V1	8.5	9.6	5	15	1.0	100	0.5	6.0
BZX79C10	9.4	10.6	5	20	1.0	150	0.2	7.0
BZX79C11	10.4	11.6	5	20	1.0	150	0.1	8.0
BZX79C12	11.4	12.7	5	25	1.0	150	0.1	8.0
BZX79C13	12.4	14.1	5	30	1.0	170	0.1	8
BZX79C15	13.8	15.6	5	30	1.0	200	0.05	10.5
BZX79C16	15.3	17.1	5	40	1.0	200	0.05	11.2
BZX79C18	16.8	19.1	5	45	1.0	225	0.05	12.6
BZX79C20	18.8	21.2	5	55	1.0	225	0.05	14.0
BZX79C22	20.8	23.3	5	55	1.0	250	0.05	15.4
BZX79C24	22.8	25.6	5	70	1.0	250	0.05	16.8
BZX79C27	25.1	28.9	2	80	0.5	300	0.05	18.9
BZX79C30	28	32	2	80	0.5	300	0.05	21.0
BZX79C33	31	35	2	80	0.5	325	0.05	23.1
BZX79C36	34	38	2	90	0.5	350	0.05	25.2
BZX79C39	37	41	2	130	0.5	350	0.05	27.3
BZX79C43	40	46	2	150	0.5	375	0.05	30.1
BZX79C47	44	50	2	170	0.5	375	0.05	32.9
BZX79C51	48	54	2	180	0.5	400	0.05	35.7
BZX79C56	52	60	2	200	0.5	425	0.05	39.2
BZX79C62	58	66	2.5	215	0.5	1000	0.05	43.4
BZX79C68	64	72	2.5	240	0.5	1000	0.05	47.6
BZX79C75	70	80	2.5	255	0.5	1000	0.05	52.5

- Notes:
1. Tolerance and voltage designation, the type numbers listed have zener voltage as shown.
 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 no 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}.