

Use Advantages

This family is equivalent to the European PRO Electron types.

The specifications reflect similar low zener test currents over voltage ranges.

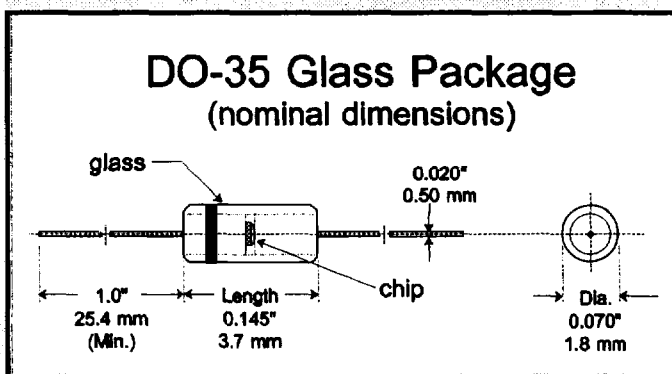
For use in clipping and stabilizing circuits, where real protection is needed.

Compatible with all major automatic assembly equipment.

May be used on ceramic boards along with high temperature IR solder reflow.

Features

- Six Sigma quality
- High surge capability
- Humidity proof glass
- Metallurgically bonded
- Thermally matched system
- No applications restrictions
- BKC's Sigma Bond™ plating for problem free solderability
- Screening capability to Source Control Drawings
- LL-34/35 MELF (DO-213AA) SMD surface mount glass types available



Absolute Maximum Ratings	Symbol	Value	Unit
Power Dissipation at 3/8" from the body, $T_L = 25^\circ\text{C}$	P_{tot}	0.5	Watt
Junction Temperature	T_j	175	$^\circ\text{C}$
Operating and Storage Temperature Range	T_s	-55 to +175	$^\circ\text{C}$

Characteristics at $T = 25^\circ\text{C}$	Symbol	Limit	Unit
Power derating at 3/8" from the body, $T_L = 25^\circ\text{C}$	P_{DR}	3.0 (Max)	mW/ $^\circ\text{C}$
Forward Voltage at $I_F = 100\text{ mA}$	V_F	1.5 (Max)	Volts

LL-34/35 MELF (DO-213AA) surface mount package available, substitute a BCV prefix in place of BCX.

DETAILED SPECIFICATIONS ON REVERSE

DO-35 glass 0.5 Watt**Zener Diodes**

BZX55C2V4
thru
BZX55C75

Detail Specifications

Type	Nominal Zener Voltage (V_Z) @ I_{Z1} Volts mA		Maximum Zener Impedance Z_{zt} @ I_{Z1} Ohms	Maximum Reverse Leakage Current (I_R) @ V_R μA Volts		Maximum Zener Current (I_{ZM}) mA	Typical Temp. Coef. of Zener Voltage %/°C
BZX55C2V4	2.4	5.0	100	50	1.0	208	-0.075
BZX55C2V7	2.7	5.0	100	20	1.0	185	-0.075
BZX55C3	3.0	5.0	95	10	1.0	167	-0.07
BZX55C3V3	3.3	5.0	95	5	1.0	152	-0.06
BZX55C3V6	3.6	5.0	90	5	1.0	139	-0.055
BZX55C3V9	3.9	5.0	90	3	1.0	128	-0.045
BZX55C4V3	4.3	5.0	90	3	1.0	116	-0.01
BZX55C4V7	4.7	5.0	80	3	2.0	106	+0.01
BZX55C5V1	5.1	5.0	60	2	2.0	96	+0.025
BZX55C5V6	5.6	5.0	40	1	2.0	89	+0.035
BZX55C6V2	6.2	5.0	10	3	4.0	81	+0.04
BZX55C6V8	6.8	5.0	15	2	4.0	74	+0.044
BZX55C7V5	7.5	5.0	15	1	5.0	67	+0.051
BZX55C8V2	8.2	5.0	15	0.7	5.0	61	+0.055
BZX55C9V1	9.1	5.0	15	0.5	6.0	55	+0.061
BZX55C10	10	5.0	20	0.1	7.0	50	+0.065
BZX55C11	11	5.0	20	0.1	8.0	45	+0.068
BZX55C12	12	5.0	25	0.1	8.0	42	+0.07
BZX55C13	13	5.0	30	0.1	8.0	38	+0.075
BZX55C15	15	5.0	30	0.05	10.5	33	+0.079
BZX55C16	16	5.0	40	0.05	11.2	31	+0.080
BZX55C18	18	5.0	45	0.05	12.6	28	+0.083
BZX55C20	20	5.0	55	0.05	14	25	+0.085
BZX55C22	22	5.0	55	0.05	15.4	23	+0.087
BZX55C24	24	5.0	70	0.05	16.8	21	+0.090
BZX55C27	27	2.0	80	0.05	18.9	19	+0.091
BZX55C30	30	2.0	80	0.05	21	17	+0.093
BZX55C33	33	2.0	80	0.05	23.1	15	+0.094
BZX55C36	36	2.0	90	0.05	25.2	14	+0.094
BZX55C39	39	2.0	130	0.05	27.3	13	+0.095
BZX55C43	43	2.0	150	0.05	30.1	12	+0.095
BZX55C47	47	2.0	170	0.05	32.9	11	+0.096
BZX55C51	51	2.0	180	0.05	35.7	9.9	+0.096
BZX55C56	56	2.0	200	0.05	39.2	8.9	+0.096
BZX55C62	62	2.0	215	0.05	43.4	8.0	+0.097
BZX55C68	68	2.0	240	0.05	47.6	7.4	+0.097
BZX55C75	75	2.0	255	0.05	52.5	6.7	+0.098

Voltage tolerance is $\pm 5\%$. Consult factory :

For 3% tolerance use BZX55F series, for 2% tolerance use BZX55B series and for 1% tolerance use BZX55A series.

Also available in a DO-213AA Mini-Melf SMD glass package, replace "BZX" prefix with "BZV".



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