

MINI-MELF-SMD

Use Advantages



0.5 Watt Zener Diodes

Glass SOD-80

This family is equivalent to the European PRO Electron types.

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

Full performance replacement for plastic SOT-23 zener diodes.

Occupies the same footprint as plastic SMA & SOD 123, no PC board rework.

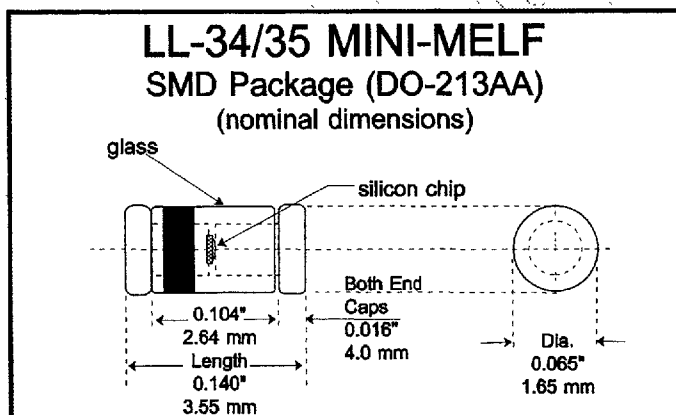
MELF vs. SMA - possible savings are as much as 50%

Compatible with all major automatic pick and place SM mounting 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
- DO-35 leaded glass package available



Absolute Maximum Ratings	Symbol	Value	Unit
Power Dissipation at $T_{End\ Cap} = 25\ ^\circ C$	P_{tot}	0.5	Watt
Junction Temperature	T_J	175	$^\circ C$
Operating and Storage Temperature Range	T_S	-55 to +175	$^\circ C$

Characteristics at $T = 25\ ^\circ C$	Symbol	Limit	Unit
Power derating at $T_{End\ Cap} = 25\ ^\circ C$	P_{DR}	3.0 (Max)	mW/ $^\circ C$
Forward Voltage at $I_F = 100\ mA$	V_F	1.5 (Max)	Volts

DO-35 leaded glass package available.

DETAILED SPECIFICATIONS ON REVERSE



6 Lake Street
Lawrence, MA
USA 01841

Telephone (508) 681-0392 • FAX (508) 681-9135

MINI-MELF-SMD

BZV55C2V4

thru

BZV55C75



0.5 Watt Zener Diodes

Detail Specifications

Type	Nominal Zener Voltage (V_Z) @ I_{ZT} Volts mA		Maximum Zener Impedance Z_{zt} @ I_{ZT} Ohms	Maximum Reverse Leakage Current (I_R) @ V_R μA Volts		Maximum Zener Current (I_{ZM}) mA	Typical Temp. Coef. of Zener Voltage %/°C
BZV55C2V4	2.4	5.0	100	50	1.0	208	-0.075
BZV55C2V7	2.7	5.0	100	20	1.0	185	-0.075
BZV55C3	3.0	5.0	95	10	1.0	167	-0.07
BV55C3V3	3.3	5.0	95	5	1.0	152	-0.06
BZV55C3V6	3.6	5.0	90	5	1.0	139	-0.055
BZV55C3V9	3.9	5.0	90	3	1.0	128	-0.045
BZV55C4V3	4.3	5.0	90	3	1.0	116	-0.01
BZV55C4V7	4.7	5.0	80	3	2.0	106	+0.01
BZV55C5V1	5.1	5.0	60	2	2.0	96	+0.025
BZV55C5V6	5.6	5.0	40	1	2.0	89	+0.035
BZV55C6V2	6.2	5.0	10	3	4.0	81	+0.04
BZV55C6V8	6.8	5.0	15	2	4.0	74	+0.044
BZV55C7V5	7.5	5.0	15	1	5.0	67	+0.051
BZV55C8V2	8.2	5.0	15	0.7	5.0	61	+0.055
BZV55C9V1	9.1	5.0	15	0.5	6.0	55	+0.061
BZV55C10	10	5.0	20	0.1	7.0	50	+0.065
BZV55C11	11	5.0	20	0.1	8.0	45	+0.068
BZV55C12	12	5.0	25	0.1	8.0	42	+0.07
BZV55C13	13	5.0	30	0.1	8.0	38	+0.075
BZV55C15	15	5.0	30	0.05	10.5	33	+0.079
BZV55C16	16	5.0	40	0.05	11.2	31	+0.080
BZV55C18	18	5.0	45	0.05	12.6	28	+0.083
BZV55C20	20	5.0	55	0.05	14	25	+0.085
BZV55C22	22	5.0	55	0.05	15.4	23	+0.087
BZV55C24	24	5.0	70	0.05	16.8	21	+0.090
BZV55C27	27	2.0	80	0.05	18.9	19	+0.091
BZV55C30	30	2.0	80	0.05	21	17	+0.093
BZV55C33	33	2.0	80	0.05	23.1	15	+0.094
BZV55C36	36	2.0	90	0.05	25.2	14	+0.094
BZV55C39	39	2.0	130	0.05	27.3	13	+0.095
BZV55C43	43	2.0	150	0.05	30.1	12	+0.095
BZV55C47	47	2.0	170	0.05	32.9	11	+0.096
BZV55C51	51	2.0	180	0.05	35.7	9.9	+0.096
BZV55C56	56	2.0	200	0.05	39.2	8.9	+0.096
BZV55C62	62	2.0	215	0.05	43.4	8.0	+0.097
BZV55C68	68	2.0	240	0.05	47.6	7.4	+0.097
BZV55C75	75	2.0	255	0.05	52.5	6.7	+0.098

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

for 3% tolerance BZV55F series

for 2% tolerance BZV55B series

for 1% tolerance BZV55A series

Also available in a DO-35 Glass package.



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