DO-35 glass 0.5 Watt

ZPD2,7 thru ZPD51

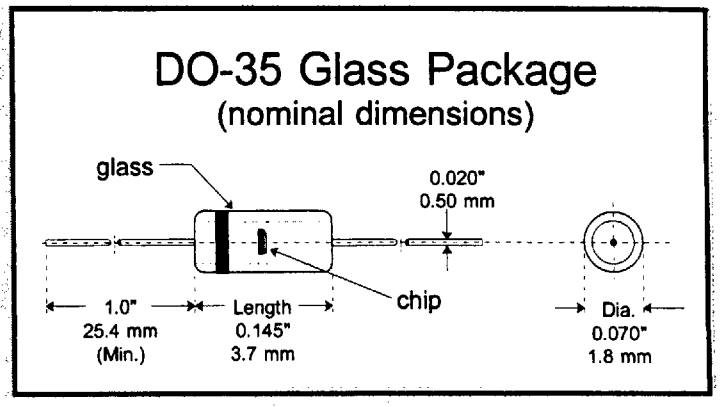
Zener Diodes

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.
Competitive glass replacement for plastic zener diodes.
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 °C	P_{tot}	0.5	Watt
Junction Temperature	T_j	175	°C
Operating and Storage Temperature Range	T_S	-55 to +175	°C

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

LL-34/35 MELF (DO-213AA) surface mount package available,
substitute a ZMM prefix in place of ZPD.
DETAILED SPECIFICATIONS ON REVERSE

BKC Semiconductors Inc.
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DO-35 glass 0.5 Watt Zener Diodes

ZPD2,7 thru ZPD51

ZPD2,7 thru ZPD51 Detail Specifications

Type	Nominal Zener Voltage (V_Z) @ I_{Zt} Volts	mA	Maximum Zener Impedance Zzt @ I_{Zt} Ohms	Zzk @ 1.0mA Ohms	Maximum Reverse Leakage Current (I_R) µA	@ V_R Volts	Maximum Zener Current (I_{ZM}) mA	Typical Temp.Coef. of Zener Voltage %/°C
ZPD2,7	2.7	5.0	83	500	-	-	160	-0.075
ZPD3	3.0	5.0	95	500	-	-	140	-0.07
ZPD3,3	3.3	5.0	95	500	-	-	130	-0.06
ZPD3,6	3.6	5.0	95	500	-	-	120	-0.055
ZPD3,9	3.9	5.0	95	500	-	-	110	-0.045
ZPD4,3	4.3	5.0	95	500	-	-	100	-0.01
ZPD4,7	4.7	5.0	78	500	-	-	90	+0.01
ZPD5,1	5.1	5.0	60	480	0.1	0.8	80	+0.025
ZPD5,6	5.6	5.0	40	400	0.1	1.0	70	+0.035
ZPD6,2	6.2	5.0	10	200	0.1	2.0	64	+0.04
ZPD6,8	6.8	5.0	8.0	150	0.1	3.0	58	+0.044
ZPD7,5	7.5	5.0	7.0	50	0.1	5.0	53	+0.051
ZPD8,2	8.2	5.0	7.0	50	0.1	6.0	47	+0.055
ZPD9,1	9.1	5.0	10	50	0.1	7.0	43	+0.061
ZPD10	10	5.0	15	70	0.1	7.5	40	+0.065
ZPD11	11	5.0	20	70	0.1	8.5	36	+0.068
ZPD12	12	5.0	20	90	0.1	9.0	32	+0.07
ZPD13	13	5.0	25	110	0.1	10	29	+0.075
ZPD15	15	5.0	30	110	0.1	11	27	+0.079
ZPD16	16	5.0	40	170	0.1	12	24	+0.080
ZPD18	18	5.0	50	170	0.1	14	21	+0.083
ZPD20	20	5.0	50	220	0.1	15	20	+0.085
ZPD22	22	5.0	55	220	0.1	17	18	+0.087
ZPD24	24	5.0	80	220	0.1	18	16	+0.090
ZPD27	27	5.0	80	250	0.1	20	14	+0.091
ZPD30	30	5.0	80	250	0.1	22.5	13	+0.093
ZPD33	33	5.0	80	250	0.1	25	12	+0.094
ZPD36	36	5.0	90	250	0.1	27	11	+0.094
ZPD39	39	2.0	90	300	0.1	29	10	+0.095
ZPD43	43	2.0	100	700	0.1	32	9.2	+0.095
ZPD47	47	2.0	100	750	0.1	35	8.5	+0.096
ZPD51	51	2.0	100	750	0.1	38	7.8	+0.096

Voltage tolerance is ± 5 %. For other tolerances and other zener voltages, consult factory.
For an LL-34/35 Mini-MELF SMD Glass package, replace the "ZPD" prefix with "ZMM".

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