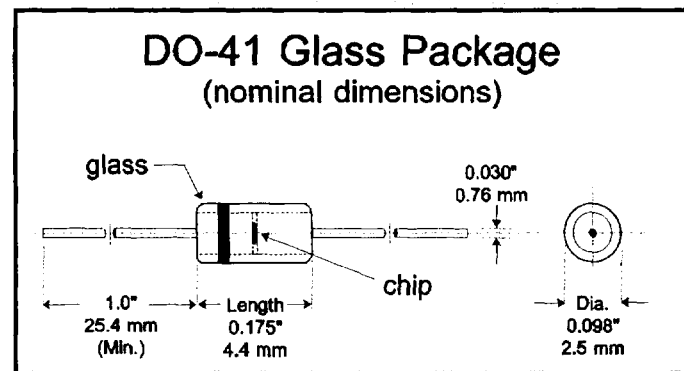


## Use Advantages

- European Pro-Electron type specifications, now available from a US location.
- Ideal for use as low cost, general purpose regulators and protection devices.
- Used in hostile environments where long term reliability is important.
- Competitive replacement for plastic DO-41 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
- Humidity proof glass
- Thermally matched system
- No thermal fatigue
- No applications restrictions
- BKC's Sigma Bond™ plating for problem free solderability
- LL-41 MELF (DO-213AB) SMD glass types available



Absolute Maximum Ratings	Symbol	Value	Unit
Power Dissipation at 3/8" from the body, $T_L = 25\text{ }^\circ\text{C}$	$P_{tot}$	1.3	Watts
Junction Temperature	$T_j$	200	$^\circ\text{C}$
Storage Temperature Range	$T_{st}$	-55 to +200	$^\circ\text{C}$

Characteristics at $T_{amb} = 25\text{ }^\circ\text{C}$	Symbol	Limit	Unit
Power Derating at 3/8" from the body, $T_L = 25\text{ }^\circ\text{C}$	$P_{DR}$	7.4 (Max)	mW/ $^\circ\text{C}$
Forward Voltage at $I_F = 200\text{ mA}$	$V_F$	1.1 (Max)	Volts

BKC can provide zener voltages above 200 volts in high quantities, consult factory for quotation.  
LL-41 MELF (DO-213AB) surface mount package available, substitute a "ZM" prefix in place of "ZP".

DETAILED SPECIFICATIONS ON REVERSE

DO-41 1.3 Watts



Zener Diodes

ZPY3.9 thru ZPY100  
and  
ZPU100 thru ZPU200

Detail  
Specifications

Type	Nominal Zener Voltage (V <sub>Z</sub> ) @ I <sub>ZT</sub> Volts	Test Current I <sub>ZT</sub> mA	Maximum Zener Impedance (Z <sub>ZT</sub> ) @ I <sub>ZT</sub> Ohms	Maximum Reverse Voltage (V <sub>R</sub> ) @ I <sub>R</sub> =0.5μA Volts	Typical Temperature Coefficient @ I <sub>ZT</sub> mV/°C	Maximum Regulator Current (I <sub>ZM</sub> ) mA
ZPY3,9	3.9	100	7	-	-25	290
ZPY4,3	4.3	100	7	-	-20	260
ZPY4,7	4.7	100	7	-	-15	235
ZPY5,1	5.1	100	5	>0.7	-5	215
ZPY5,6	5.6	100	2	>1.5	+10	193
ZPY6,2	6.2	100	2	>2.0	+25	183
ZPY6,8	6.8	100	2	>3.0	+35	157
ZPY7,5	7.5	100	2	>5.0	+35	143
ZPY8,2	8.2	100	2	>6.0	+55	127
ZPY9,1	9.1	50	4	>7.0	+55	117
ZPY10	10	50	4	>7.5	+70	105
ZPY11	11	50	7	>8.5	+75	94
ZPY12	12	50	7	>9.0	+75	85
ZPY13	13	50	9	>10	+75	78
ZPY15	15	50	9	>11	+75	70
ZPY16	16	25	10	>12	+90	63
ZPY18	18	25	11	>14	+90	57
ZPY20	20	25	12	>15	+90	52
ZPY22	22	25	13	>17	+90	48
ZPY24	24	25	14	>18	+95	42
ZPY27	27	25	15	>20	+95	38
ZPY30	30	25	20	>22.5	+95	35
ZPY33	33	25	20	>25	+95	31
ZPY36	36	10	60	>27	+95	29
ZPY39	39	10	60	>29	+100	26
ZPY43	43	10	80	>32	+105	24
ZPY47	47	10	80	>35	+105	22
ZPY51	51	10	100	>38	+105	20
ZPY56	56	10	100	>42	+105	18
ZPY62	62	10	130	>47	+105	16
ZPY68	68	10	130	>51	+105	14
ZPY75	75	10	160	>56	+105	13
ZPY82	82	10	160	>61	+105	12
ZPY91	91	5	250	>68	+110	11
ZPY100	100	5	250	>75	+110	10
ZPU100	100	5	300	>75	+110	10
ZPU120	120	5	330	>90	+110	8.5
ZPU150	150	5	360	>112	+110	7
ZPU180	180	5	380	>134	+110	5.5
ZPU200	200	5	400	>150	+110	5

ZPY suffix has voltage tolerances of ± 5%. ZPU suffix part numbers have ± 10% tolerance.  
For LL-41 MELF (DO-213AB) surface mount glass package, replace "ZP" prefix with "ZM".



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