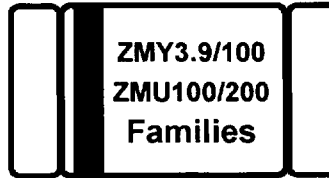


MELF SMD 1.3 Watts



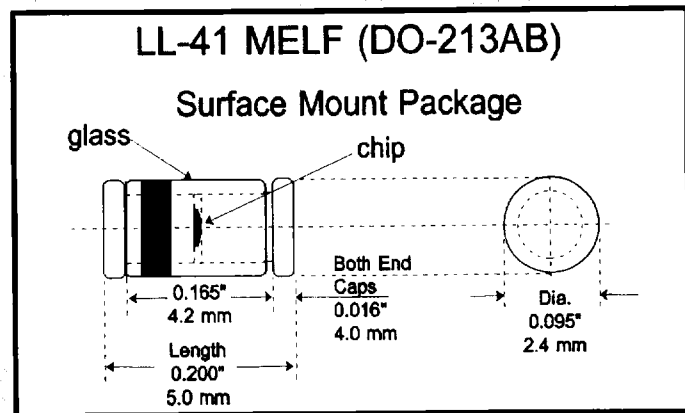
Zener Diodes

Use Advantages

European Pro-Electron type specifications, now produced at a US location. Ideal for use as low cost, general purpose regulators and protection devices. Used where low cost and space are important. Cost effective replacement for plastic SMB zener diodes. Occupies the same footprint as SMB, no PC board rework. LL-41 MELF vs. SMB - savings of up to 50% are possible. 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
- Humidity proof glass
- Thermally matched system
- No thermal fatigue
- No applications restrictions
- BKC's Sigma Bond™ plating for problem free solderability
- DO-41 leaded glass package available



Absolute Maximum Ratings	Symbol	Value	Unit
Power Dissipation at End Cap Temperature, $T_{End\ Cap} = 25\ ^\circ C$	P_{tot}	1.3	Watts
Junction Temperature	T_j	200	$^\circ C$
Storage Temperature Range	T_{st}	-55 to +200	$^\circ C$

Characteristics at $T_{amb} = 25\ ^\circ C$	Symbol	Limit	Unit
Power Derating at End Cap Temperature, $T_{End\ Cap} = 25\ ^\circ C$	P_{DR}	7.4 (Max)	mW/ $^\circ C$
Forward Voltage at $I_F = 200\ mA$	V_F	1.1 (Max)	Volts

BKC can provide zener voltages above 200 volts in high quantities, consult factory for quotation.

DO-41 leaded glass package available, substitute a "ZP" prefix in place of "ZM".

DETAILED SPECIFICATIONS ON REVERSE



6 Lake Street
Lawrence, MA
USA 01841

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

BKCSS100

MELF SMD 1.3 Watts

ZMY3.9 thru ZMY100
and
ZMU100 thru ZMU200



Zener Diodes

Detail Specifications

Type	Nominal Zener Voltage (V _Z) @ I _{ZT} Volts	Test Current I _{ZT} mA	Maximum Zener Impedance (Z _{ZT}) @ I _{ZT} Ohms	Maximum Reverse Voltage (V _R) @ I _R =0.5μA Volts	Typical Temperature Coefficient @ I _{ZT} mV/°C	Maximum Regulator Current (I _{ZM}) mA
ZMY3,9	3.9	100	7	-	-25	290
ZMY4,3	4.3	100	7	-	-20	260
ZMY4,7	4.7	100	7	-	-15	235
ZMY5,1	5.1	100	5	>0.7	-5	215
ZMY5,6	5.6	100	2	>1.5	+10	193
ZMY6,2	6.2	100	2	>2.0	+25	183
ZMY6,8	6.8	100	2	>3.0	+35	157
ZMY7,5	7.5	100	2	>5.0	+35	143
ZMY8,2	8.2	100	2	>6.0	+55	127
ZMY9,1	9.1	50	4	>7.0	+55	117
ZMY10	10	50	4	>7.5	+70	105
ZMY11	11	50	7	>8.5	+75	94
ZMY12	12	50	7	>9.0	+75	85
ZMY13	13	50	9	>10	+75	78
ZMY15	15	50	9	>11	+75	70
ZMY16	16	25	10	>12	+90	63
ZMY18	18	25	11	>14	+90	57
ZMY20	20	25	12	>15	+90	52
ZMY22	22	25	13	>17	+90	48
ZMY24	24	25	14	>18	+95	42
ZMY27	27	25	15	>20	+95	38
ZMY30	30	25	20	>22.5	+95	35
ZMY33	33	25	20	>25	+95	31
ZMY36	36	10	60	>27	+95	29
ZMY39	39	10	60	>29	+100	26
ZMY43	43	10	80	>32	+105	24
ZMY47	47	10	80	>35	+105	22
ZMY51	51	10	100	>38	+105	20
ZMY56	56	10	100	>42	+105	18
ZMY62	62	10	130	>47	+105	16
ZMY68	68	10	130	>51	+105	14
ZMY75	75	10	160	>56	+105	13
ZMY82	82	10	160	>61	+105	12
ZMY91	91	5	250	>68	+110	11
ZMY100	100	5	250	>75	+110	10
ZMU100	100	5	300	>75	+110	10
ZMU120	120	5	330	>90	+110	8.5
ZMU150	150	5	360	>112	+110	7
ZMU180	180	5	380	>134	+110	5.5
ZMU200	200	5	400	>150	+110	5

ZMY suffix has voltage tolerances of ± 5%. ZMU suffix part numbers have ± 10% tolerance.

For DO-41 leaded glass package, replace "ZM" prefix with "ZP".



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