

MELF SMD 1.3 Watts



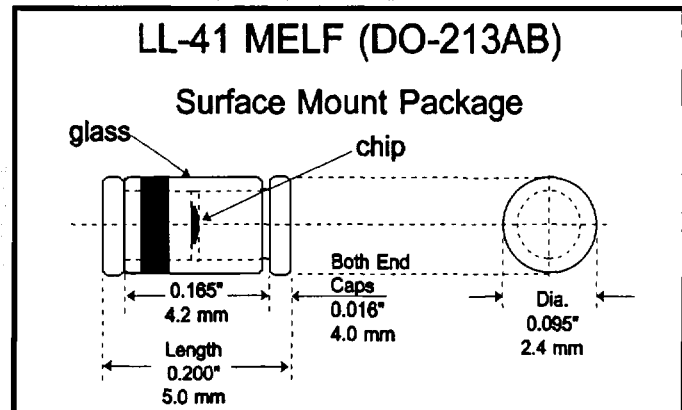
Zener Diodes

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 types 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	1.0 (Max)	Volts

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

Glass DO-41 leaded package available, substitute a "BZX" prefix in place of "BZV".

DETAILED SPECIFICATIONS ON REVERSE

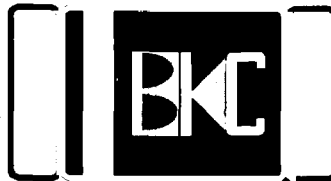


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Telephone (508) 681-0392 • FAX (508) 681-9135

BKCSS086

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Zener Diodes

BZV85 - C3V6
thru
BZV85 - C62

Detail
Specifications

Type	Nominal Zener Voltage	Test Current	Maximum Zener Impedance		Maximum Reverse Leakage		Typical Temperature Coefficient	Maximum Regulator Current	Maximum Surge Current	
	(V _Z) @ I _{ZT} Volts	I _{ZT} mA	(Z _{ZT})@I _{ZT} Ohms	(Z _{ZK})@I _{ZK} Ohms	(I _R)@ V _R μA	V _R @ Volts	@ I _{ZT} %/ °C	(I _{ZM}) mA	(I _{FSM}) mA	
BZV85 -C3V6	3.6	60	15	500	1.0	20	1.0	-0.065	290	2660
BZV85-C3V9	3.9	60	15	500	1.0	10	1.0	-0.045	280	2540
BZV85-C4V3	4.3	50	13	500	1.0	3	1.0	-0.020	250	2440
BZV85-C4V7	4.7	45	13	600	1.0	3	1.5	+0.005	215	2320
BZV85-C5V1	5.1	45	10	500	1.0	1	2.0	+0.015	200	2200
BZV85-C5V6	5.6	45	7	400	1.0	1	2.0	+0.025	190	2080
BZV85-C6V2	6.2	35	4	300	1.0	1	3.0	+0.032	170	1960
BZV85-C6V8	6.8	35	3.5	200	0.5	1	4.0	+0.037	155	1800
BZV85-C7V5	7.5	35	3	200	0.5	1	4.5	+0.042	140	1620
BZV85-C8V2	8.2	25	5	200	0.5	1	5.0	+0.05	130	1520
BZV85-C9V1	9.1	25	5	200	0.5	0.5	6.5	+0.055	120	1340
BZV85-C10	10	25	7	200	0.5	0.5	7.0	+0.06	105	1200
BZV85-C11	11	20	8	300	0.5	0.5	7.7	+0.062	97	1100
BZV85-C12	12	20	9	350	0.5	0.5	8.4	+0.067	88	1000
BZV85-C13	13	20	10	400	0.5	0.5	9.1	+0.069	79	900
BZV85-C15	15	15	10	500	0.5	0.5	10.5	+0.072	71	760
BZV85-C16	16	15	15	500	0.5	0.5	11	+0.072	66	700
BZV85-C18	18	15	20	500	0.5	0.5	12.5	+0.075	62	600
BZV85-C20	20	10	24	600	0.5	0.5	14	+0.075	56	540
BZV85-C22	22	10	25	600	0.5	0.5	15.5	+0.077	52	500
BZV85-C24	24	10	25	600	0.5	0.5	17	+0.077	47	450
BZV85-C27	27	8	30	750	0.25	0.5	19	+0.077	41	400
BZV85-C30	30	8	30	1000	0.25	0.5	21	+0.077	36	380
BZV85-C33	33	8	35	1000	0.25	0.5	23	+0.077	33	350
BZV85-C36	36	8	40	1000	0.25	0.5	25	+0.077	30	320
BZV85-C39	39	6	50	1000	0.25	0.5	27	+0.077	28	296
BZV85-C43	43	6	50	1000	0.25	0.5	30	+0.077	26	270
BZV85-C47	47	4	90	1500	0.25	0.5	33	+0.077	23	246
BZV85-C51	51	4	115	1500	0.25	0.5	36	+0.077	21	226
BZV85-C56	56	4	120	2000	0.25	0.5	39	+0.077	19	208
BZV85-C62	62	4	125	2000	0.25	0.5	43	+0.077	16	186

BZV85 family products have voltage tolerances of ± 6%. for other tolerance, consult factory.

For higher voltages up to and beyond 200Volts,consult factory.

For DO-41 leaded glass package, replace "BZV" prefix with "BZX".



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