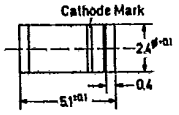
BKC International Electronics Inc.
6 Lake Street
PO Box 1436
Lawrence, MA
USA 01841
Telephone (508) 681-0392 • TeleFax (508) 681-9135
Call or write for a catalog of all our fine products.

LL 4733 ... LL4752

Silicon Planar Power Zener Diodes
for use in stabilizing and clipping circuits with high power rating. Standard Zener voltage tolerance is ± 10%. Add suffix "A" for ±5% tolerance. Other tolerances available upon request.



Glass case MELF

Weight approx. 0.25 g
Dimensions in mm

These diodes are delivered taped.
Details see "Taping".

Absolute Maximum Ratings

	Symbol	Value	Unit
Zener Current see Table "Characteristics"			
Power Dissipation at T_{amb} = 25 °C	P_{tot}	1 [1]	W
Junction Temperature	T_j	200	°C
Storage Temperature Range	T_S	−65 to +200	°C

[1] Valid provided that electrodes are kept at ambient temperature

Characteristics at T_{amb} = 25 °C

	Symbol	Min.	Typ.	Max.	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	–	–	170 [1]	K/W
Forward Voltage at I_F = 200 mA	V_F	–	–	1.2	V

[1] Valid provided that electrodes are kept at ambient temperature

Type	Nominal Zener voltage [3] at I_{ZT} V_Z V	Test current I_{ZT} mA	Maximum Zener impedance [1] at I_{ZT} Z_{ZT} Ω	Z_{ZK} Ω	at I_{ZK} mA	Maximum reverse leakage current I_R µA	at V_R V	Surge current at T_A = 25 °C I_R mA	Maximum regulator current [2] I_{ZM} mA
LL 4733	5.1	49	7	550	1.0	10	1	890	178
LL4734	5.6	45	5	600	1.0	10	2	810	162
LL4735	6.2	41	2	700	1.0	10	3	730	146
LL4736	6.8	37	3.5	700	1.0	10	4	660	133
LL4737	7.5	34	4.0	700	0.5	10	5	605	121
LL4738	8.2	31	4.5	700	0.5	10	6	550	110
LL 4739	9.1	28	5.0	700	0.5	10	7	500	100
LL4740	10	25	7	700	0.25	10	7.6	454	91
LL4741	11	23	8	700	0.25	5	8.4	414	83
LL4742	12	21	9	700	0.25	5	9.1	380	76
LL4743	13	19	10	700	0.25	5	9.9	344	69
LL4744	15	17	14	700	0.25	5	11.4	304	61
LL4745	16	15.5	16	700	0.25	5	12.2	285	57
LL4746	18	14	20	750	0.25	5	13.7	250	50
LL4747	20	12.5	22	750	0.25	5	15.2	225	45
LL4748	22	11.5	23	750	0.25	5	16.7	205	41
LL4749	24	10.5	25	750	0.25	5	18.2	190	38
LL4750	27	9.5	35	750	0.25	5	20.6	170	34
LL4751	30	8.5	40	1000	0.25	5	22.8	150	30
LL4752	33	7.5	45	1000	0.25	5	25.1	135	27

[1] The Zener impedance is derived from the 60 Hz AC voltage which results when an AC current having an RMS value equal to 10% of the Zener current (I_{ZT} or I_{ZK}) is superimposed on I_{ZT} or I_{ZK}. Zener impedance is measured at two points to insure a sharp knee on the breakdown curve and to eliminate unstable units.
[2] Valid provided that electrodes are kept at ambient temperature.
[3] Tested with pulses.