MINI-MELF-SMD Use Advantages

LL4624
LL4099
Families

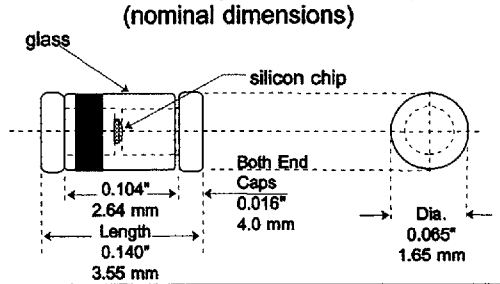
0.4 Watt Zener Diodes

Low noise zeners, used in applications requiring very quiet and stable operation such as sensitive instrumentation.
Competitive glass replacement for plastic SOD 123 or SMA zener diodes.
Same footprint as above and compatible with all types of automatic assembly.
May be used on ceramic boards along with high temperature IR solder reflow.
MIL-S-19500/435 "UR" DO-213AA SMD approvals, see list for bold √ types.

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
- DO-35 leaded parts available
- Available up to JTXV UR-1 levels
- Can be screened up to "S" level via Source Control Drawings

LL-34/35 MINI-MELF
SMD Package (DO-213AA)
(nominal dimensions)



Absolute Maximum Ratings	Symbol	Value	Unit
BKC Power Dissipation (end cap temperature @ 25 °C)	P_{tot}	0.4	Watt
BKC Junction Temperature	T_j	200	°C
Operating and Storage Temperature Range	T_S	-65 to +200	°C

Characteristics at T = 25 °C	Symbol	Limit	Unit
BKC Power derating (end cap temperature @ 25 °C)	P_{DR}	2.3 (Max)	mW/°C
Forward Voltage at I_F = 200 mA	V_F	1.1 (Max)	Volts

To order Mil types; add a JAN1N, JTX1N or JTXV1N prefix along with a UR-1 suffix to the √ type numbers listed.

DO-35 leaded glass package available in both commercial and Mil types, use 1N in place of the LL prefix.

DETAILED SPECIFICATIONS ON REVERSE

BKC Semiconductors Incorporated

6 Lake Street
Lawrence, MA
USA 01841

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

MINI-MELF-SMD
LL4624 thru LL4627
and
LL4099 thru LL4135

0.4 Watt Zener Diodes
LL- 34/35 DO-213AA
Detail
Specifications

Type	Nominal Zener Voltage (V_Z) @ I_{Zt} Volts	Test Current I_{Zt} µA	Maximum Zener Impedance (Z_{Zt}) Ohms	Maximum Reverse Leakage Current (I_R) µA	Maximum Reverse Leakage Current @ V_R Volts	Maximum Noise Density (N_D) @ I_{Zt} µV/ Hz	Maximum Zener Current (I_{ZM}) mA	Typical Temperature Coefficient % / °C
LL4624	4.7	250	1550	10.0	3	1	60	-0.040, +0.020
LL4625 √	**5.1**	**250**	**1500**	**10.0**	**3**	**2**	**70**	**-0.045, +0.030**
LL4626 √	**5.6**	**250**	**1400**	**10.0**	**4**	**4**	**65**	**-0.020, +0.040**
LL4627 √	**6.2**	**250**	**1200**	**10.0**	**5**	**5**	**61**	**-0.010, +0.050**
LL4099 √	**6.8**	**250**	**200**	**10.0**	**5.17**	**40**	**56**	**0.040**
LL4100 √	**7.5**	**250**	**200**	**10.0**	**5.70**	**40**	**51**	**0.045**
LL4101 √	**8.2**	**250**	**200**	**1.0**	**6.24**	**40**	**46**	**0.048**
LL4102 √	**8.7**	**250**	**200**	**1.0**	**6.61**	**40**	**44**	**0.049**
LL4103 √	**9.1**	**250**	**200**	**1.0**	**6.92**	**40**	**42**	**0.050**
LL4104 √	**10**	**250**	**200**	**1.0**	**7.60**	**40**	**38**	**0.055**
LL4105 √	**11**	**250**	**200**	**0.05**	**8.44**	**40**	**35**	**0.060**
LL4106 √	**12**	**250**	**200**	**0.05**	**9.12**	**40**	**32**	**0.065**
LL4107 √	**13**	**250**	**200**	**0.05**	**9.87**	**40**	**29**	**0.065**
LL4108 √	**14**	**250**	**200**	**0.05**	**10.65**	**40**	**27**	**0.070**
LL4109 √	**15**	**250**	**100**	**0.05**	**11.40**	**40**	**25**	**0.070**
LL4110 √	**16**	**250**	**100**	**0.05**	**12.15**	**40**	**24**	**0.070**
LL4111 √	**17**	**250**	**100**	**0.05**	**12.92**	**40**	**22**	**0.075**
LL4112 √	**18**	**250**	**100**	**0.05**	**13.67**	**40**	**21**	**0.075**
LL4113 √	**19**	**250**	**150**	**0.05**	**14.44**	**40**	**20**	**0.075**
LL4114 √	**20**	**250**	**150**	**0.01**	**15.20**	**40**	**19**	**0.075**
LL4115 √	**22**	**250**	**150**	**0.01**	**16.72**	**40**	**17**	**0.080**
LL4116 √	**24**	**250**	**150**	**0.01**	**18.25**	**40**	**16**	**0.080**
LL4117 √	**25**	**250**	**150**	**0.01**	**19.00**	**40**	**15**	**0.080**
LL4118 √	**27**	**250**	**150**	**0.01**	**20.45**	**40**	**14**	**0.085**
LL4119 √	**28**	**250**	**200**	**0.01**	**21.28**	**40**	**14**	**0.085**
LL4120 √	**30**	**250**	**200**	**0.01**	**22.80**	**40**	**13**	**0.085**
LL4121 √	**33**	**250**	**200**	**0.01**	**25.08**	**40**	**12**	**0.085**
LL4122	36	250	200	0.01	27.38	40	11	0.09
LL4123	39	250	200	0.01	29.65	40	9.8	0.09
LL4124	43	250	250	0.01	32.65	40	8.9	0.09
LL4125	47	250	250	0.01	35.75	40	8.1	0.09
LL4126	51	250	300	0.01	38.76	40	7.5	0.09
LL4127	56	250	300	0.01	42.60	40	6.7	0.09
LL4128	60	250	400	0.01	45.60	40	6.4	0.09
LL4129	62	250	500	0.01	47.10	40	6.1	0.09
LL4130	68	250	700	0.01	51.68	40	5.6	0.095
LL4131	75	250	700	0.01	57.00	40	5.1	0.095
LL4132	82	250	800	0.01	62.32	40	4.6	0.095
LL4133	87	250	1000	0.01	66.12	40	4.4	0.095
LL4134	91	250	1200	0.01	69.16	40	4.2	0.095
LL4135	100	250	1500	0.01	76.00	40	3.8	0.095

Non-suffix Voltage tolerance is ± 5%. C & D suffix (± 2% are ± 1%) and are available for the "UR" MIL approved types.

To order the DO-213AA Mil types; use a JAN1N, JTX1N or JTXV1N prefix,along with a UR-1 and appropriate letter suffix to the bold √ type numbers listed above.

For commercial DO-35 leaded glass packages, replace "LL" prefix with "1N"

BKC Semiconductors
Incorporated

6 Lake Street
Lawrence, MA
USA 01841

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