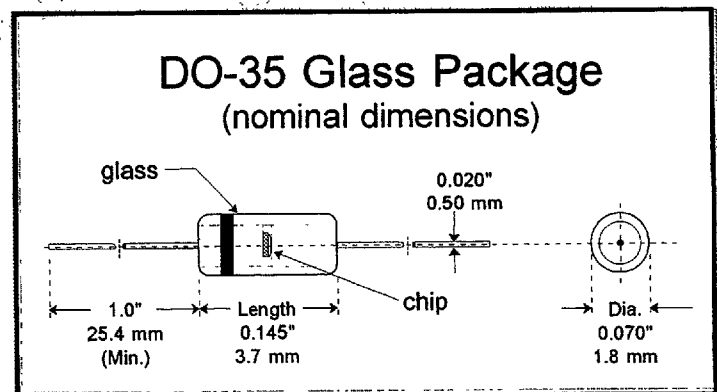


Use Advantages

- Low noise zeners, used in applications requiring very quiet and stable operation such as sensitive instrumentation.
- Competitive glass replacement for plastic DO-35 zener diodes.
- Compatible with all major automatic assembly equipment.
- May be used on ceramic boards along with high temperature IR solder reflow.
- MIL-S-19500 / 435 approvals, see list for bold ✓ types.

Features

- Six Sigma quality
- High surge capability
- Humidity proof glass
- Metallurgically bonded
- Thermally matched system
- No applications restrictions
- Available up to JANTXV-1 levels
- Screening capability includes "S" level to Source Control Drawings
- BKC's Sigma Bond™ plating for problem free solderability
- LL-34/35 MELF(DO-213AA) SMD in commercial and UR-1 MIL types



Absolute Maximum Ratings	Symbol	Value	Unit
BKC Power Dissipation at 3/8" from the body, $T_L = 25^\circ\text{C}$	P_{tot}	0.4	Watt
BKC Junction Temperature	T_J	200	$^\circ\text{C}$
Operating and Storage Temperature Range	$T_{\text{Op \& St}}$	-65 to +200	$^\circ\text{C}$

Characteristics at $T = 25^\circ\text{C}$	Symbol	Limit	Unit
BKC Power derating at 3/8" from the body, $T_L = 25^\circ\text{C}$	P_{DR}	2.3 (Max)	mW/ $^\circ\text{C}$
Forward Voltage at $I_F = 200\text{ mA}$	V_F	1.1 (Max)	Volts

LL-34/35 MELF (DO-213AA) surface mount package available, use LL in place of the 1N prefix.

To order Mil devices, use the listed ✓ part numbers with the appropriate JAN, JTX or JTXV prefix.

DETAILED SPECIFICATIONS ON REVERSE



6 Lake Street
Lawrence, MA
USA 01841

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

DO-35 glass 0.4 Watt**Zener Diodes**

**1N4624 thru 1N4627
and
1N4099 thru 1N4135**

**Low Noise Zener
Detail
Specifications**

Type	Nominal Zener Voltage (V _Z) @ I _{Z1} Volts	Test Current I _{Z1} µA	Maximum Zener Impedance (Z _{Z1}) Ohms	Maximum Reverse Leakage Current		Maximum Noise Density (N _D) @ I _{Z1} µV/ Hz	Maximum Zener Current (I _{ZM}) mA	Typical Temperature Coefficient %/ °C
				(I _R) µA	@ V _R Volts			
1N4624	4.7	250	1550	10.0	3	1	60	-0.040, +0.020
1N4625 ✓	5.1	250	1500	10.0	3	2	70	-0.045, +0.030
1N4626 ✓	5.6	250	1400	10.0	4	4	65	-0.020, +0.040
1N4627 ✓	6.2	250	1200	10.0	5	5	61	-0.010, +0.050
1N4099 ✓	6.8	250	200	10.0	5.17	40	56	0.040
1N4100 ✓	7.5	250	200	10.0	5.70	40	51	0.045
1N4101 ✓	8.2	250	200	1.0	6.24	40	46	0.048
1N4102 ✓	8.7	250	200	1.0	6.61	40	44	0.049
1N4103 ✓	9.1	250	200	1.0	6.92	40	42	0.050
1N4104 ✓	10	250	200	1.0	7.60	40	38	0.055
1N4105 ✓	11	250	200	0.05	8.44	40	35	0.060
1N4106 ✓	12	250	200	0.05	9.12	40	32	0.065
1N4107 ✓	13	250	200	0.05	9.87	40	29	0.065
1N4108 ✓	14	250	200	0.05	10.65	40	27	0.070
1N4109 ✓	15	250	100	0.05	11.40	40	25	0.070
1N4110 ✓	16	250	100	0.05	12.15	40	24	0.070
1N4111 ✓	17	250	100	0.05	12.92	40	22	0.075
1N4112 ✓	18	250	100	0.05	13.67	40	21	0.075
1N4113 ✓	19	250	150	0.05	14.44	40	20	0.075
1N4114 ✓	20	250	150	0.01	15.20	40	19	0.075
1N4115 ✓	22	250	150	0.01	16.72	40	17	0.080
1N4116 ✓	24	250	150	0.01	18.25	40	16	0.080
1N4117 ✓	25	250	150	0.01	19.00	40	15	0.080
1N4118 ✓	27	250	150	0.01	20.45	40	14	0.085
1N4119 ✓	28	250	200	0.01	21.28	40	14	0.085
1N4120 ✓	30	250	200	0.01	22.80	40	13	0.085
1N4121 ✓	33	250	200	0.01	25.08	40	12	0.085
1N4122	36	250	200	0.01	27.38	40	11	0.09
1N4123	39	250	200	0.01	29.65	40	9.8	0.09
1N4124	43	250	250	0.01	32.65	40	8.9	0.09
1N4125	47	250	250	0.01	35.75	40	8.1	0.09
1N4126	51	250	300	0.01	38.76	40	7.5	0.09
1N4127	56	250	300	0.01	42.60	40	6.7	0.09
1N4128	60	250	400	0.01	45.60	40	6.4	0.09
1N4129	62	250	500	0.01	47.10	40	6.1	0.09
1N4130	68	250	700	0.01	51.68	40	5.6	0.095
1N4131	75	250	700	0.01	57.00	40	5.1	0.095
1N4132	82	250	800	0.01	62.32	40	4.6	0.095
1N4133	87	250	1000	0.01	66.12	40	4.4	0.095
1N4134	91	250	1200	0.01	69.16	40	4.2	0.095
1N4135	100	250	1500	0.01	76.00	40	3.8	0.095

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

For LL34/35 Mini-MELF surface mount package, replace "1N" prefix with "LL"

To order Mil types; add a JAN, JTX or JTXV prefix, an appropriate letter and -1 suffix to the ✓ type numbers listed.

For DO-213AA Mil types, precede the above suffix with "UR".



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