



FRONTIER
ELECTRONICS CO., LTD.

500mW MINI MELF ZENER DIODE

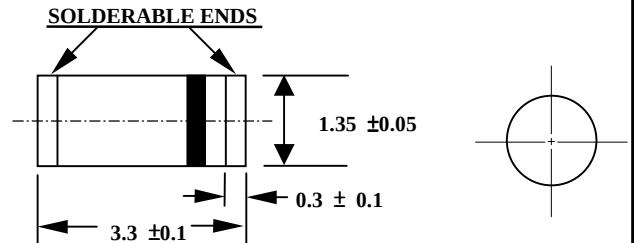
GLZ2.0A
THRU
GLZ36D

FEATURES

- LOW COST
- SMALL SIZE
- GLASS SEALED

MECHANICAL DATA

- CASE : MINI MELF GLASS CASE
- TERMINALS : SOLDERABLE PER MIL-STD -202, METHOD 208
- POLARITY : COLOR BAND DENOTES CATHODE
- MOUNTING POSITION : ANY
- WEIGHT : 0.036 GRAMS



CASE : DO-213AA (GL34)
DIMENSIONS IN MILLIMETERS

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED
SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD.
FOR CAPACITIVE LOAD, DERATE BY 20%

ELECTRICAL CHARACTERISTICS (TA=25°C UNLESS OTHERWISE NOTED) VF=1.0V MAX, IF = 100mA FOR ALL TYPES

JEDEC TYPE	NOMINAL ZENER VOLTS V _Z @I _{ZT} VOLTS		TEST CURRENT I _{ZT} mA	TEST CURRENT I _{ZK} mA	MAXIMUM ZENER IMPEDANCE		MAXIMUM REVERSE LEAKAGE CURRENT	
	MIN	MAX			Z _{ZT} @ I _{ZT}	Z _{ZK} @I _{ZK}	I _R	@ V _R
					OHMS	OHMS	μA	VOLTS
GLZ2.0A	1.880	2.100	20	1	140	2000	120	0.5
GLZ2.0B	2.020	2.200	20	1	140	2000	120	0.5
GLZ2.2A	2.120	2.300	20	1	120	2000	120	0.7
GLZ2.2B	2.220	2.410	20	1	120	2000	120	0.7
GLZ2.4A	2.330	2.520	20	1	100	2000	120	1.0
GLZ2.4B	2.430	2.630	20	1	100	2000	120	1.0
GLZ2.7A	2.540	2.750	20	1	100	1000	120	1.0
GLZ2.7B	2.690	2.910	20	1	100	1000	120	1.0
GLZ3.0A	2.850	3.070	20	1	80	1000	50	1.0
GLZ3.0B	3.010	3.220	20	1	80	1000	50	1.0
GLZ3.3A	3.160	3.380	20	1	70	1000	20	1.0
GLZ3.3B	3.320	3.530	20	1	70	1000	20	1.0
GLZ3.6A	3.455	3.695	20	1	60	1000	10	1.0
GLZ3.6B	3.600	3.845	20	1	60	1000	10	1.0
GLZ3.9A	3.740	4.010	20	1	50	1000	5	1.0
GLZ3.9B	3.890	4.160	20	1	50	1000	5	1.0
GLZ4.3A	4.040	4.290	20	1	40	1000	5	1.0
GLZ4.3B	4.170	4.430	20	1	40	1000	5	1.0
GLZ4.3C	4.300	4.570	20	1	40	1000	5	1.0
GLZ4.7A	4.440	4.680	20	1	25	900	5	1.0
GLZ4.7B	4.550	4.800	20	1	25	900	5	1.0
GLZ4.7C	4.680	4.930	20	1	25	900	5	1.0
GLZ5.1A	4.481	5.070	20	1	20	800	5	1.5
GLZ5.1B	4.940	5.200	20	1	20	800	5	1.5
GLZ5.1C	5.090	5.370	20	1	20	800	5	1.5

NOTE : * MINI MELF MOLDED GLASS

ELECTRICAL CHARACTERISTICS (TA=25°C UNLESS OTHERWISE NOTED) VF=1.0V MAX, IF = 100mA FOR ALL TYPES								
JEDEC TYPE	NOMINAL ZENER VOLTS V _Z @I _{ZT} VOLTS		TEST CURRENT I _{ZT} mA	TEST CURRENT I _{ZK} mA	MAXIMUM ZENER IMPEDANCE		MAXIMUM REVERSE LEAKAGE CURRENT	
	MIN	MAX			Z _{ZT} @ I _{ZT}	Z _{ZK} @I _{ZK}	I _R	@ V _R
					OHMS	OHMS	μA	VOLTS
GLZ5.6A	5.280	5.550	20	1	13	500	5	2.5
GLZ5.6B	5.450	5.730	20	1	13	500	5	2.5
GLZ5.6C	5.610	5.910	20	1	13	500	5	2.5
GLZ6.2A	5.78	6.09	20	1	10	300	5	3.0
GLZ6.2B	5.96	6.27	20	1	10	300	5	3.0
GLZ6.2C	6.12	6.44	20	1	10	300	5	3.0
GLZ6.8A	6.29	6.63	20	0.5	8	150	2	3.5
GLZ6.8B	6.49	6.83	20	0.5	8	150	2	3.5
GLZ6.8C	6.66	7.01	20	0.5	8	150	2	3.5
GLZ7.5A	6.85	7.22	20	0.5	8	120	0.5	4.0
GLZ7.5B	7.07	7.45	20	0.5	8	120	0.5	4.0
GLZ7.5C	7.29	7.67	20	0.5	8	120	0.5	4.0
GLZ8.2A	7.53	7.92	20	0.5	8	120	0.5	5.0
GLZ8.2B	7.78	8.19	20	0.5	8	120	0.5	5.0
GLZ8.2C	8.03	8.45	20	0.5	8	120	0.5	5.0
GLZ9.1A	8.29	8.73	20	0.5	8	120	0.5	6.0
GLZ9.1B	8.57	9.01	20	0.5	8	120	0.5	6.0
GLZ9.1C	8.83	9.30	20	0.5	8	120	0.5	6.0
GLZ10A	9.12	9.59	20	0.5	8	120	0.2	7.0
GLZ10B	9.41	9.90	20	0.5	8	120	0.2	7.0
GLZ10C	9.70	10.20	20	0.5	8	120	0.2	7.0
GLZ10D	9.94	10.44	20	0.5	8	120	0.2	7.0
GLZ11A	10.18	10.71	10	0.5	10	120	0.2	8.0
GLZ11B	10.50	11.05	10	0.5	10	120	0.2	8.0
GLZ11C	10.82	11.38	10	0.5	10	120	0.2	8.0
GLZ12A	11.13	11.71	10	0.5	12	110	0.2	9.0
GLZ12B	11.44	12.03	10	0.5	12	110	0.2	9.0
GLZ12C	11.74	12.35	10	0.5	12	110	0.2	9.0
GLZ13A	12.11	12.75	10	0.5	14	110	0.2	10
GLZ13B	12.55	13.21	10	0.5	14	110	0.2	10
GLZ13C	12.99	13.66	10	0.5	14	110	0.2	10
GLZ15A	13.44	14.13	10	0.5	16	110	0.2	11
GLZ15B	13.89	14.62	10	0.5	16	110	0.2	11
GLZ15C	14.35	15.09	10	0.5	16	110	0.2	11
GLZ16A	14.80	15.57	10	0.5	18	150	0.2	12
GLZ16B	15.25	16.04	10	0.5	18	150	0.2	12
GLZ16C	15.69	16.51	10	0.5	18	150	0.2	12
GLZ18A	16.22	17.06	10	0.5	23	150	0.2	13
GLZ18B	16.82	17.70	10	0.5	23	150	0.2	13
GLZ18C	17.42	18.33	10	0.5	23	150	0.2	13
GLZ20A	18.02	18.96	10	0.5	28	200	0.2	15.0
GLZ20B	18.63	19.59	10	0.5	28	200	0.2	15.0
GLZ20C	19.23	20.22	10	0.5	28	200	0.2	15.0
GLZ20D	19.27	20.72	10	0.5	28	200	0.2	15.0
GLZ22A	20.15	21.20	5	0.5	30	200	0.2	17.0
GLZ22B	20.64	21.71	5	0.5	30	200	0.2	17.0
GLZ22C	21.08	22.17	5	0.5	30	200	0.2	17.0
GLZ22D	21.52	22.63	5	0.5	30	200	0.2	17.0

NOTE : * MINI MELF MOLDED GLASS .

ELECTRICAL CHARACTERISTICS (TA=25℃ UNLESS OTHERWISE NOTED) VF=1.0V MAX, IF = 100mA FOR ALL TYPES								
JEDEC TYPE	NOMINAL ZENER VOLTS V _Z @I _{ZT} VOLTS		TEST CURRENT I _{ZT} mA	TEST CURRENT I _{ZK} mA	MAXIMUM ZENER IMPEDANCE		MAXIMUM REVERSE LEAKAGE CURRENT	
	MIN	MAX			Z _{ZT} @ I _{ZT}	Z _{ZK} @I _{ZK}	I _R	@ V _R
					OHMS	OHMS	μA	VOLTS
GLZ24A	22.05	23.18	5	0.5	35	200	0.2	19.0
GLZ24B	22.61	23.77	5	0.5	35	200	0.2	19.0
GLZ24C	23.12	24.31	5	0.5	35	200	0.2	19.0
GLZ24D	23.63	24.85	5	0.5	35	200	0.2	19.0
GLZ27A	24.26	25.52	5	0.5	45	200	0.2	21.0
GLZ27B	24.97	26.26	5	0.5	45	200	0.2	21.0
GLZ27C	25.63	26.95	5	0.5	45	200	0.2	21.0
GLZ27D	26.29	27.64	5	0.5	45	200	0.2	21.0
GLZ30A	26.99	28.39	5	0.5	55	250	0.2	23.0
GLZ30B	27.70	29.13	5	0.5	55	250	0.2	23.0
GLZ30C	28.36	29.82	5	0.5	55	250	0.2	23.0
GLZ30D	29.02	30.51	5	0.5	55	250	0.2	23.0
GLZ33A	29.68	31.22	5	0.5	65	250	0.2	25.0
GLZ33B	30.32	31.88	5	0.5	65	250	0.2	25.0
GLZ33C	30.90	32.50	5	0.5	65	250	0.2	25.0
GLZ33D	31.49	33.11	5	0.5	65	250	0.2	25.0
GLZ36A	32.14	33.79	5	0.5	75	250	0.2	27.0
GLZ36B	32.79	34.49	5	0.5	75	250	0.2	27.0
GLZ36C	33.40	35.13	5	0.5	75	250	0.2	27.0
GLZ36D	34.01	35.77	5	0.5	75	250	0.2	27.0

NOTE : * MINI MELF MOLDED GLASS .

RATINGS AND CHARACTERISTIC CURVES GLZ2.0A THRU GLZ36D

FIG.1- BREAKDOWN CHARACTERISTICS

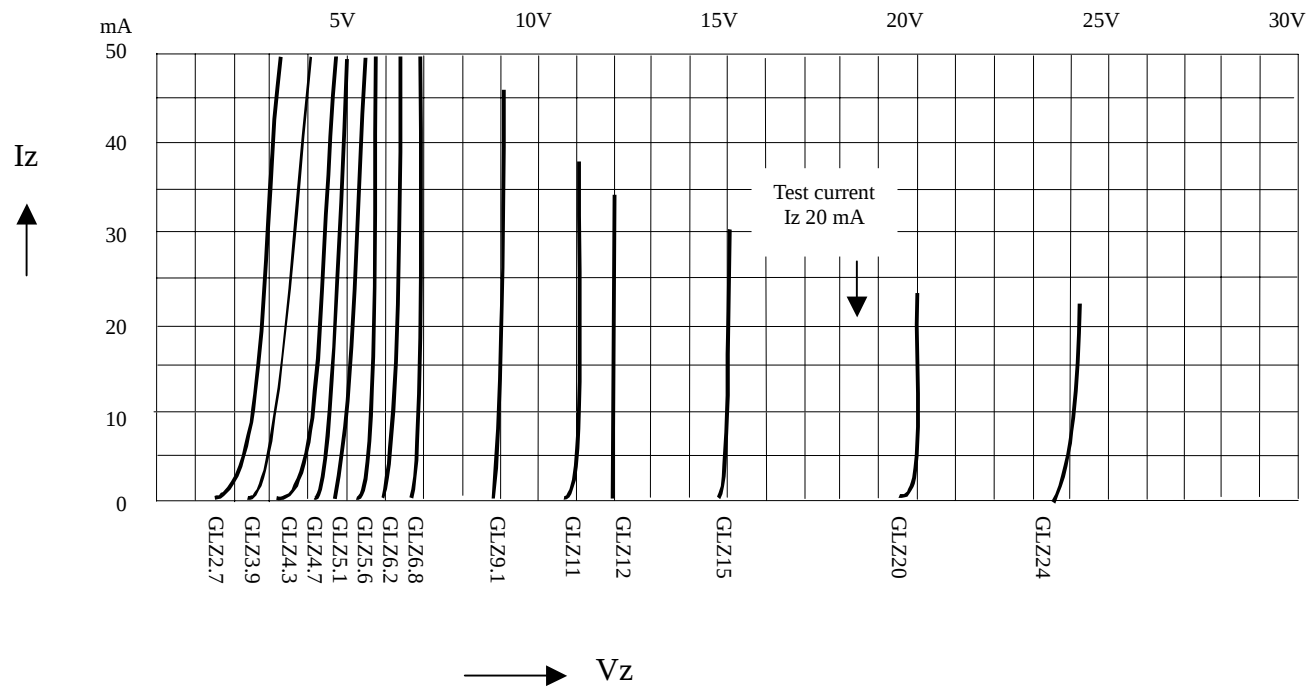


FIG.2- POWER ,TEMPERATURE DERATING CURVE

