

DATA SHEET

GLZJ2.0~GLZJ56

SURFACE MOUNT ZENER DIODES

VOLTAGE 2.0 to 56 Volts **POWER** 500 mWatts

MINI-MELF/LL-34

Unit : inch (mm)

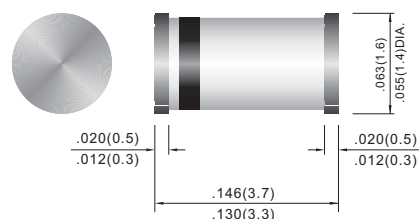
FEATURES

- Planar Die construction
- 500mW Power Dissipation
- Ideally Suited for Automated Assembly Processes

MECHANICAL DATA

- Case: Molded Glass MINI-MELF
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram Below
- Approx. Weight: 0.008 grams
- Mounting Position: Any
- Packing information

T/R - 2.5K per 7" plastic Reel



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Power Dissipation at Tamb = 25 °C	P _{TOT}	500	mW
Junction Temperature	T _J	175	°C
Storage Temperature Range	T _S	-65 to +175	°C
Valid provided that leads at a distance of 10mm from case are kept at ambient temperature.			

Parameter	Symbol	Min.	Typ.	Max.	Units
Thermal Resistance Junction to Ambient Air	R _{thA}	--	--	0.3	K/mW
Forward Voltage at I _F = 100mA	V _F	--	--	1	V
Valid provided that leads at a distance of 10mm from case are kept at ambient temperature.					

Part Number	CLASS	V _z @ I _{zT}		I _z (mA)	V _R (V)	I _R (μ A) MAX	I _{zt} (mA)	Z _{zT} (Ω) MAX	I _{zk} (mA)	Z _{zk} (Ω) MAX
		Min. V	Max. V							
GLZJ 2.0	A	1.88	2.10	5	0.5	120	5	100	0.5	1000
	B	2.02	2.20							
GLZJ 2.2	A	2.12	2.30	5	0.7	100	5	100	0.5	1000
	B	2.22	2.41							
GLZJ 2.4	A	2.33	2.52	5	1.0	120	5	100	0.5	1000
	B	2.43	2.63							
GLZJ 2.7	A	2.54	2.75	5	1.0	100	5	110	0.5	1000
	B	2.69	2.91							
GLZJ 3.0	A	2.85	3.07	5	1.0	50	5	120	0.5	1000
	B	3.01	3.22							
GLZJ 3.3	A	3.16	3.38	5	1.0	20	5	120	0.5	1000
	B	3.32	3.53							
GLZJ 3.6	A	3.455	3.695	5	1.0	10	5	100	1	1000
	B	3.60	3.845							
GLZJ 3.9	A	3.74	4.01	5	1.0	5	5	100	1	1000
	B	3.89	4.16							
GLZJ 4.3	A	4.04	4.29	5	1.0	5	5	100	1	1000
	B	4.17	4.43							
	C	4.30	4.57							
GLZJ 4.7	A	4.44	4.68	5	1.0	5	5	90	1	900
	B	4.55	4.80							
	C	4.68	4.93							
GLZJ 5.1	A	4.81	5.07	5	1.5	5	5	80	1	800
	B	4.94	5.20							
	C	5.09	5.37							
GLZJ 5.6	A	5.28	5.55	5	2.5	5	5	60	1	500
	B	5.45	5.73							
	C	5.61	5.91							
GLZJ 6.2	A	5.78	6.09	5	3.0	5	5	60	1	300
	B	5.96	6.27							
	C	6.12	6.44							
GLZJ 6.8	A	6.29	6.63	5	3.5	2	5	20	0.5	150
	B	6.49	6.83							
	C	6.66	7.01							
GLZJ 7.5	A	6.85	7.22	5	4.0	0.5	5	20	0.5	120
	B	7.07	7.45							
	C	7.29	7.67							
GLZJ 8.2	A	7.53	7.92	5	5.0	0.5	5	20	0.5	120
	B	7.78	8.19							
	C	8.03	8.45							
GLZJ 9.1	A	8.29	8.73	5	6.0	0.5	5	25	0.5	120
	B	8.57	9.01							
	C	8.83	9.30							
GZLJ 10	A	9.12	9.59	5	7.0	0.2	5	30	0.5	120
	B	9.41	9.90							
	C	9.70	10.20							
	D	9.94	10.44							
GLZJ 11	A	10.18	10.71	5	8.0	0.2	5	30	0.5	120
	B	10.50	11.05							
	C	10.82	11.38							

Part Number	CLASS	Vz @ IzT		IZ (mA)	VR (V)	IR(μA) MAX	Izt (mA)	ZzT(Ω) MAX	Izk (mA)	Zzk(Ω) MAX
		Min. V	Max. V							
GLZJ 12	A	11.13	11.71	5	9.0	0.2	5	30	0.5	110
	B	11.44	12.03							
	C	11.74	12.35							
GLZJ 13	A	12.11	12.75	5	10	0.2	5	35	0.5	110
	B	12.55	13.21							
	C	12.99	13.66							
GLZJ 15	A	13.44	14.13	5	11	0.2	5	40	0.5	110
	B	13.89	14.62							
	C	14.35	15.09							
GLZJ 16	A	14.80	15.57	5	12	0.2	5	40	0.5	150
	B	15.25	16.04							
	C	15.69	16.51							
GLZJ 18	A	16.22	17.06	5	13	0.2	5	45	0.5	150
	B	16.82	17.70							
	C	17.42	18.33							
GLZJ 20	A	18.02	18.96	5	15	0.2	5	55	0.5	200
	B	18.63	19.59							
	C	19.23	20.22							
	D	19.72	20.72							
GLZJ 22	A	20.15	21.20	5	17	0.2	5	30	0.5	200
	B	20.64	21.71							
	C	21.08	22.17							
	D	21.52	22.63							
GLZJ 24	A	22.05	23.18	5	19	0.2	5	35	0.5	200
	B	22.61	23.77							
	C	23.12	24.31							
	D	23.63	24.85							
GLZJ 27	A	24.26	25.52	5	21	0.2	5	45	0.5	250
	B	24.97	26.26							
	C	25.63	26.95							
	D	26.29	27.64							
GLZJ 30	A	26.99	28.39	5	23	0.2	5	55	0.5	250
	B	27.70	29.13							
	C	28.36	29.82							
	D	29.02	30.51							
GLZJ 33	A	29.68	31.22	5	25	0.2	5	65	0.5	250
	B	30.32	31.88							
	C	30.90	32.50							
	D	31.49	33.11							
GLZJ 36	A	32.14	33.79	5	27	0.2	5	75	0.5	250
	B	32.79	34.49							
	C	33.40	35.13							
	D	34.01	35.77							
GLZJ 39	A	34.68	36.47	5	30	0.2	5	85	0.5	250
	B	35.36	37.19							
	C	36.00	37.85							
	D	36.63	38.52							
GLZJ 43		40.00	45.00	5	33	0.2	5	90	--	--
GLZJ 47		44.00	49.00	5	36	0.2	5	90	--	--
GLZJ 51		48.00	54.00	5	39	0.2	5	110	--	--
GLZJ 56		53.00	60.00	5	43	0.2	5	110	--	--

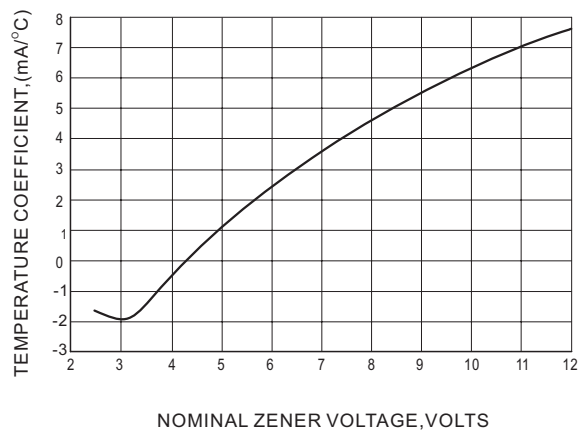


Fig.1 TEMPERATURE COEFFICIENTS

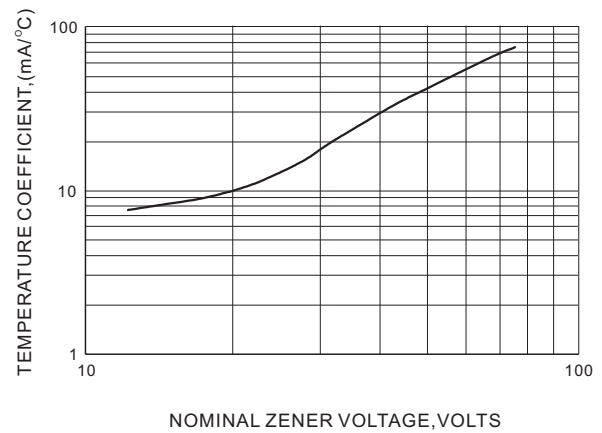


Fig.2 TEMPERATURE COEFFICIENTS

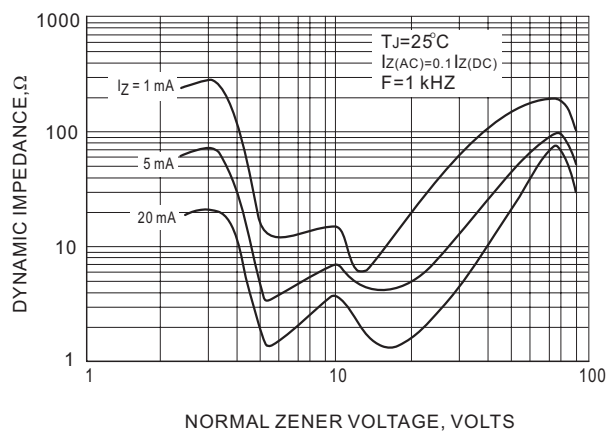


Fig.3 EFFECT OF ZENER VOLTAGE ON ZENER IMPEDANCE

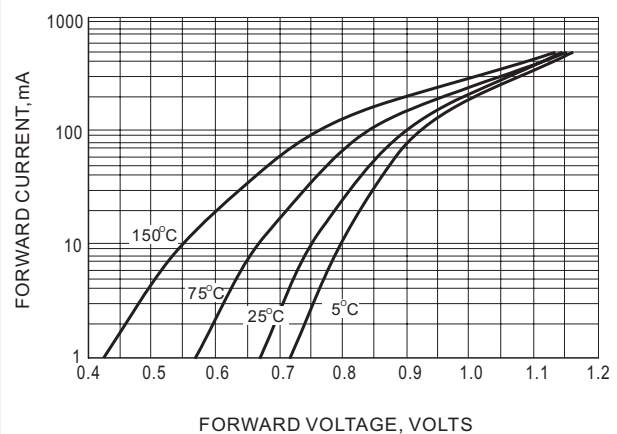


Fig.4 TYPICAL FORWARD VOLTAGE

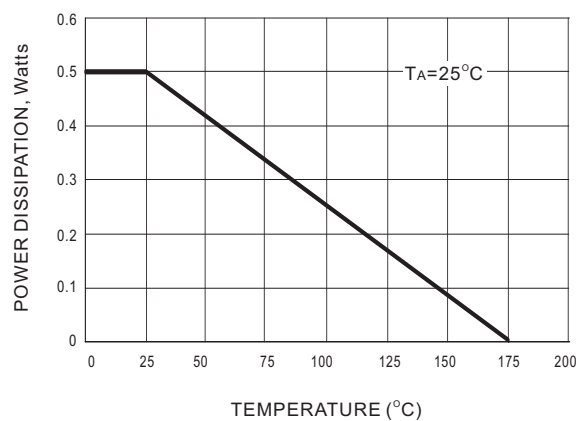


Fig.5 STEADY STATE POWER DERATING

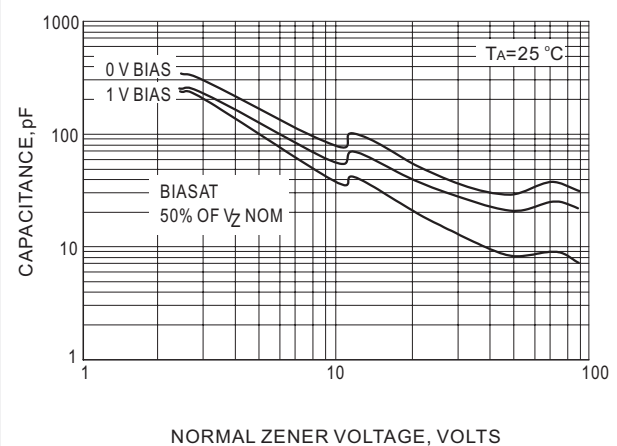


Fig.6 TYPICAL CAPACITANCE

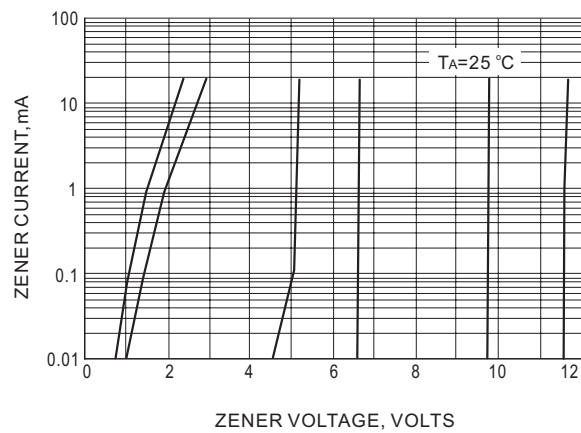


Fig.7 ZENER VOLTAGE VERSUS ZENER CURRENT

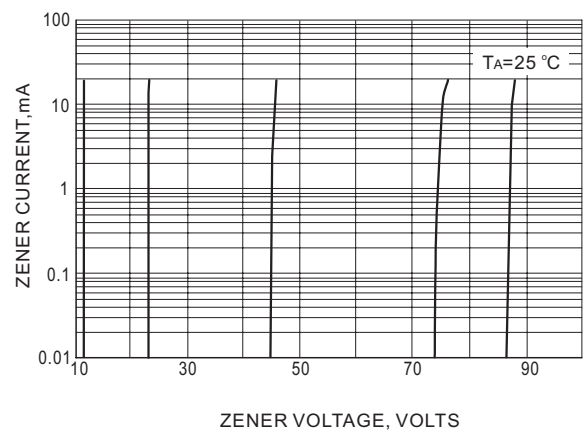


Fig.8 ZENER VOLTAGE VERSUS ZENER CURRENT

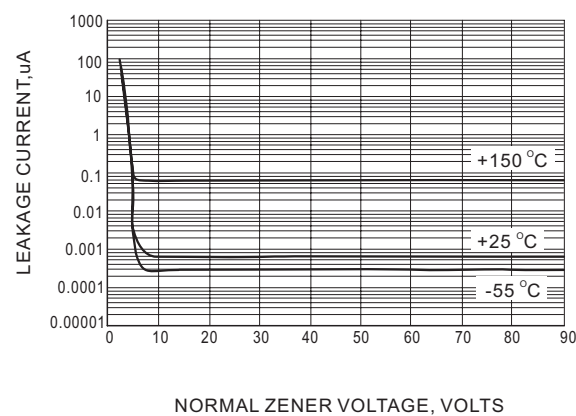


Fig.9 TYPICAL LEAKAGE CURRENT