

SURFACE MOUNT ZENER DIODES

0.5W , $\pm 2\%$

GLZJ-SERIES

RoHS Compliant Product

A suffix of "-C" specifies halogen-free

SPEC.	CLASS	V _Z (V)		I _Z (mA)	I _F (mA)	V _F (V)		V _R (V)	I _R (μA) MAX	I _{zt} (mA)	Z _{zt} (Ω) MAX	I _{zk} (mA)	Z _{zk} (Ω) MAX
		MIN	MAX			MIN	MAX						
GLZJ2.0	A	1.88	2.10	5	100	0.2	1.0	0.5	120	5	100	0.5	1000
	B	2.02	2.20										
GLZJ2.2	A	2.12	2.30	5	100	0.2	1.0	0.7	100	5	100	0.5	1000
	B	2.22	2.41										
GLZJ2.4	A	2.33	2.52	5	100	0.2	1.0	1.0	120	5	100	0.5	1000
	B	2.43	2.63										
GLZJ2.7	A	2.54	2.75	5	100	0.2	1.0	1.0	100	5	110	0.5	1000
	B	2.69	2.91										
GLZJ3.0	A	2.85	3.07	5	100	0.2	1.0	1.0	50	5	120	0.5	1000
	B	3.01	3.22										
GLZJ3.3	A	3.16	3.38	5	100	0.2	1.0	1.0	20	5	120	0.5	1000
	B	3.32	3.53										
GLZJ3.6	A	3.46	3.69	5	100	0.2	1.0	1.0	10	5	100	1	1000
	B	3.60	3.84										
GLZJ3.9	A	3.74	4.01	5	100	0.2	1.0	1.0	5	5	100	1	1000
	B	3.89	4.16										
GLZJ4.3	A	4.04	4.29	5	100	0.2	1.0	1.0	5	5	100	1	1000
	B	4.17	4.43										
	C	4.30	4.57										
GLZJ4.7	A	4.44	4.68	5	100	0.2	1.0	1.0	5	5	90	1	900
	B	4.55	4.80										
	C	4.68	4.93										
GLZJ5.1	A	4.81	5.07	5	100	0.2	1.0	1.5	5	5	80	1	800
	B	4.94	5.20										
	C	5.09	5.37										
GLZJ5.6	A	5.28	5.55	5	100	0.2	1.0	2.5	5	5	60	1	500
	B	5.45	5.73										
	C	5.61	5.91										
GLZJ6.2	A	5.78	6.09	5	100	0.2	1.0	3.0	5	5	60	1	300
	B	5.96	6.27										
	C	6.12	6.44										
GLZJ6.8	A	6.29	6.63	5	100	0.2	1.0	3.5	2	5	20	0.5	150
	B	6.49	6.83										
	C	6.66	7.01										
GLZJ7.5	A	6.85	7.22	5	100	0.2	1.0	4.0	0.5	5	20	0.5	120
	B	7.07	7.45										
	C	7.29	7.67										
GLZJ8.2	A	7.53	7.92	5	100	0.2	1.0	5.0	0.5	5	20	0.5	120
	B	7.78	8.19										
	C	8.03	8.45										
GLZJ9.1	A	8.29	8.73	5	100	0.2	1.0	6.0	0.5	5	25	0.5	120
	B	8.57	9.01										
	C	8.83	9.30										
GLZJ10	A	9.12	9.59	5	100	0.2	1.0	7.0	0.2	5	30	0.5	120
	B	9.41	9.90										
	C	9.70	10.20										
	D	9.94	10.44										
GLZJ11	A	10.18	10.71	5	100	0.2	1.0	8.0	0.2	5	30	0.5	120
	B	10.50	11.05										
	C	10.82	11.38										

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		MIN	MAX			MIN	MAX						
GLZJ12	A	11.13	11.71	5	100	0.2	1.0	9.0	0.2	5	30	0.5	110
	B	11.44	12.03										
	C	11.74	12.35										
GLZJ13	A	12.11	12.75	5	100	0.2	1.0	10.0	0.2	5	35	0.5	110
	B	12.55	13.21										
	C	12.99	13.66										
GLZJ15	A	13.44	14.13	5	100	0.2	1.0	11.0	0.2	5	40	0.5	110
	B	13.89	14.62										
	C	14.35	15.09										
GLZJ16	A	14.80	15.57	5	100	0.2	1.0	12.0	0.2	5	40	0.5	150
	B	15.25	16.04										
	C	15.69	16.51										
GLZJ18	A	16.22	17.06	5	100	0.2	1.0	13.0	0.2	5	45	0.5	150
	B	16.82	17.70										
	C	17.42	18.33										
GLZJ20	A	18.02	18.96	5	100	0.2	1.0	15.0	0.2	5	55	0.5	200
	B	18.63	19.59										
	C	19.23	20.22										
	D	19.72	20.72										
GLZJ22	A	20.15	21.20	5	100	0.2	1.0	17.0	0.2	5	30	0.5	200
	B	20.64	21.71										
	C	21.08	22.17										
	D	21.52	22.63										
GLZJ24	A	22.05	23.18	5	100	0.2	1.0	19.0	0.2	5	35	0.5	200
	B	22.61	23.77										
	C	23.12	24.31										
	D	23.63	24.85										
GLZJ27	A	24.26	25.52	5	100	0.2	1.0	21.0	0.2	5	45	0.5	250
	B	24.97	26.26										
	C	25.63	26.95										
	D	26.29	27.64										
GLZJ30	A	26.99	28.39	5	100	0.2	1.0	23.0	0.2	5	55	0.5	250
	B	27.70	29.13										
	C	28.36	29.82										
	D	29.02	30.51										
GLZJ33	A	29.68	31.22	5	100	0.2	1.0	25.0	0.2	5	65	0.5	250
	B	30.32	31.88										
	C	30.90	32.50										
	D	31.49	33.11										
GLZJ36	A	32.14	33.79	5	100	0.2	1.0	27.0	0.2	5	75	0.5	250
	B	32.79	34.49										
	C	33.40	35.13										
	D	34.01	35.77										
GLZJ39	A	34.68	36.47	5	100	0.2	1.0	30.0	0.2	5	85	0.5	250
	B	35.36	37.19										
	C	36.00	37.85										
	D	36.63	38.52										
GLZJ43		40.00	45.00	5	100	0.2	1.0	33.0	0.2	5	90		
GLZJ47		44.00	49.00	5	100	0.2	1.0	36.0	0.2	5	90		
GLZJ51		48.00	54.00	5	100	0.2	1.0	39.0	0.2	5	110		
GLZJ56		53.00	60.00	5	100	0.2	1.0	43.0	0.2	5	110		

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Absolute Maximum Ratings

	Symbol	Value	Unit
Zener Current see Table "Characteristics"			
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

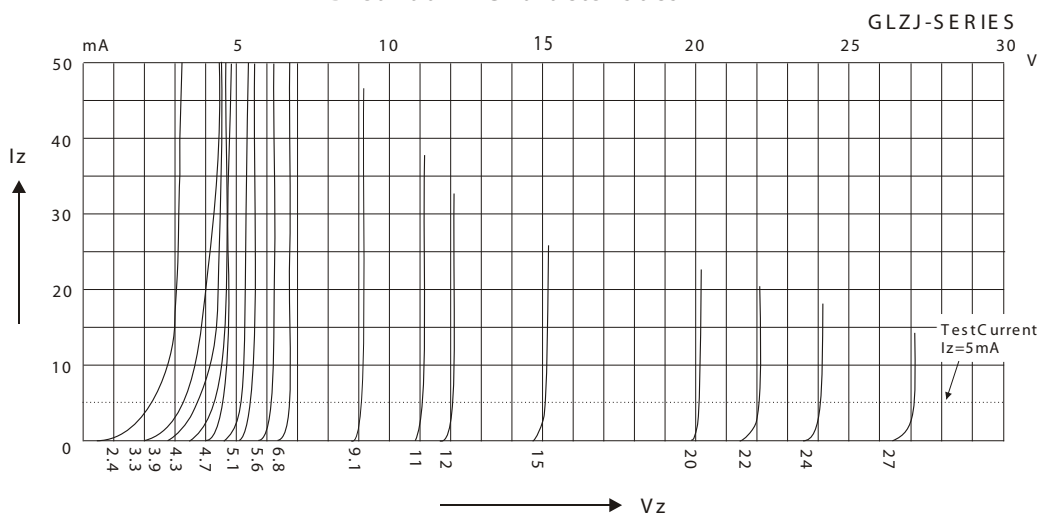
Cases: Mini Melf Molded Glass

Characteristic at Tamb=25°C

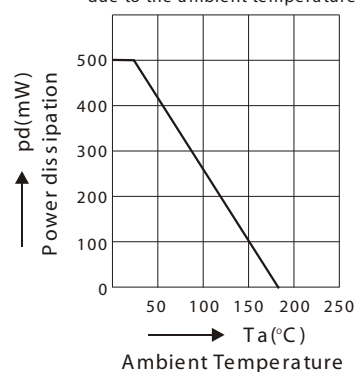
	Symbol	Min.	Typ.	Max.	Unit
Thermal Resistance Junction to Ambient Air	R _{thA}	-	-	0.3*	K/mW
Forward Voltage at I _F =100mA	V _F	-	-	1	V

*Valid provided that leads at a distance of 10mm from case are kept at ambient temperature

Breakdown Characteristics



Changes in the power dissipation due to the ambient temperature



Mechanical Data

Items	Materials	
Package	Mini MELF	
Case	Hermetically sealed glass	
Lead Finish	Solder Plating	
Packaging Dimensions (mm)		
Symbol	Min	Max
A	3.302	3.505
B	1.397	1.499
C	0.350	0.500

MINI MELF

