

# SURFACE MOUNT ZENER DIODES 0.5W , ± 2%

## GLZJ-SERIES

RoHS Compliant Product

A suffix of "-C" specifies halogen-free

SPEC.	CLASS	V <sub>Z</sub> (V)		I <sub>Z</sub> (mA)	I <sub>F</sub> (mA)	V <sub>F</sub> (V)		V <sub>R</sub> (V)	I <sub>R</sub> (μA) MAX	I <sub>zt</sub> (mA)	Z <sub>zt</sub> (Ω) MAX	I <sub>zk</sub> (mA)	Z <sub>zk</sub> (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										

\* Mini Melf Molded Glass.



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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	Ptot	500*	mW
Junction Temperature	Tj	175	°C
Storage Temperature Range	Ts	-65 to +175	°C

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

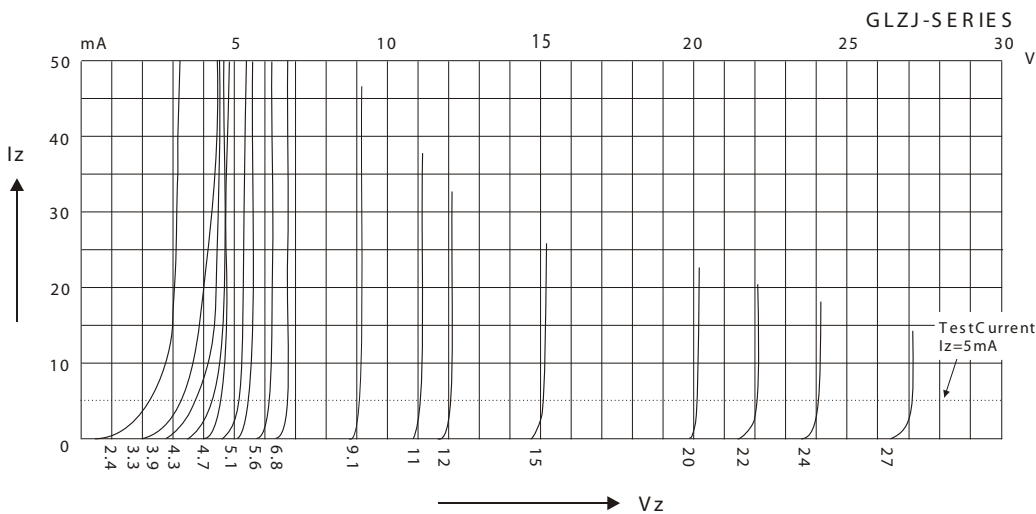
Cases: Mini Melf Molded Glass

### Characteristic at Tamb=25°C

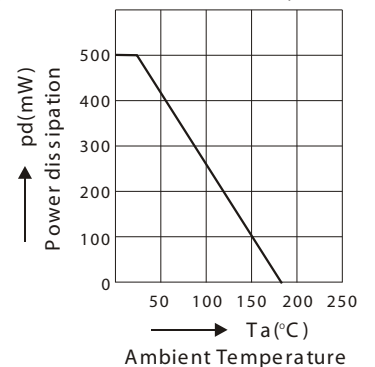
	Symbol	Min.	Typ.	Max.	Unit
Thermal Resistance Junction to Ambient Air	RthA	-	-	0.3*	K/mW
Forward Voltage at IF=100mA	VF	-	-	1	V

\*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

