

## RLZ Series

$V_Z$  : 3.6 to 39V

$P_D$  : 500mW

### FEATURES :

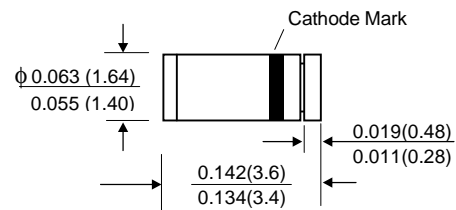
- Silicon Planar Zener Diodes
- In MiniMELF case especially for automatic insertion
- The Zener voltages are graded according to voltage bands instead of by tolerance.
- Low Zener impedance and low leakage current
- Pb / RoHS Free

### MECHANICAL DATA :

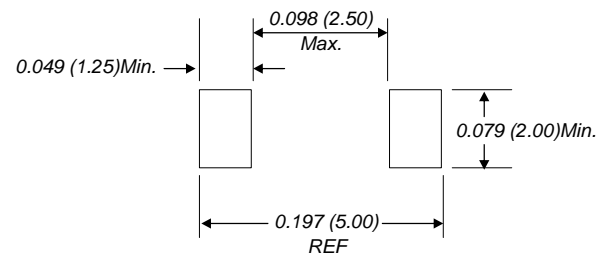
- \* Case : MiniMELF Glass Case (SOD-80C)
- \* Weight : 0.05 gram (approximately)

## ZENER DIODES

### MiniMELF (SOD-80C)



### Mounting Pad Layout



Dimensions in inches and ( millimeters )

## Maximum Ratings and Thermal Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Unit
Zener Current see Table "Characteristics"			
Power Dissipation	$P_D$	500	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	300 <sup>1)</sup>	°C/W
Junction Temperature Range	$T_J$	175	°C
Storage Temperature Range	$T_{STG}$	- 55 to + 175	°C

Note : 1) Valid provided that electrodes are kept at ambient temperature.

## ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified

Type No.	Zener Voltage $V_Z @ I_{ZT}$		Test Current $I_{ZT}$ (mA)	Maximum Zener Impedance			Maximum Reverse Current at $V_R$	
	Min. (V)	Max. (V)		$Z_{ZT} @ I_{ZT}$ ( $\Omega$ )	$Z_{ZK} @ I_{ZK}$ ( $\Omega$ )	$I_{ZK}$ (mA)	$I_R$ ( $\mu$ A)	$V_R$ (V)
RLZ 3.6B	3.60	3.85	20	60	1000	1.0	10	1.0
RLZ 3.9B	3.89	4.16	20	50	1000	1.0	5	1.0
RLZ 4.3B	4.17	4.43	20	40	1000	1.0	5	1.0
RLZ 4.7B	4.55	4.80	20	25	900	1.0	5	1.0
RLZ 5.1B	4.94	5.20	20	20	800	1.0	5	1.5
RLZ 5.6B	5.45	5.73	20	13	500	1.0	5	2.5
RLZ 6.2B	5.96	6.27	20	10	300	1.0	5	3.0
RLZ 6.8B	6.49	6.83	20	8	150	0.5	2	3.5
RLZ 7.5B	7.07	7.45	20	8	120	0.5	0.5	4.0
RLZ 8.2B	7.78	8.19	20	8	120	0.5	0.5	5.0
RLZ 9.1B	8.57	9.01	20	8	120	0.5	0.5	6.0
RLZ 10B	9.41	9.90	20	8	120	0.5	0.2	7.0
RLZ 11B	10.50	11.05	10	10	120	0.5	0.2	8.0
RLZ 12B	11.44	12.03	10	12	110	0.5	0.2	9.0
RLZ 13B	12.55	13.21	10	14	110	0.5	0.2	10
RLZ 15B	13.89	14.62	10	16	110	0.5	0.2	11
RLZ 16B	15.25	16.04	10	18	150	0.5	0.2	12
RLZ 18B	16.82	17.70	10	23	150	0.5	0.2	13
RLZ 20B	18.63	19.59	10	28	200	0.5	0.2	15
RLZ 22B	20.64	21.71	5	30	200	0.5	0.2	17
RLZ 24B	22.61	23.77	5	35	200	0.5	0.2	19
RLZ 27B	24.97	26.26	5	45	250	0.5	0.2	21
RLZ 30B	27.70	29.13	5	55	250	0.5	0.2	23
RLZ 33B	30.32	31.88	5	65	250	0.5	0.2	25
RLZ 36B	32.79	34.49	5	75	250	0.5	0.2	27
RLZ 39B	35.36	37.19	5	85	250	0.5	0.2	30

Note : (1) The Zener voltage is measured 40ms after power is supplied.