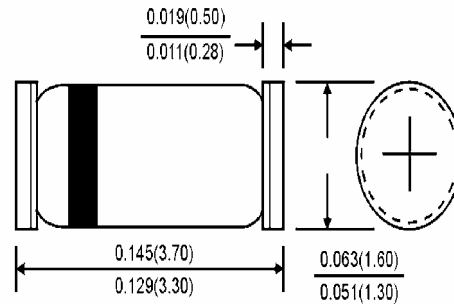


# LLZ2V0 – LLZ75

## 500mW Hermetically Sealed Glass Zener Voltage Regulators

### MINI MELF



Dimensions in inches and (millimeters)

### Features

- ✧ Zener voltage range 2.0 to 75 volts
- ✧ Mini-MELF package
- ✧ Surface device type mounting
- ✧ Hermetically sealed glass
- ✧ Compression bonded construction
- ✧ All external surfaces are corrosion resistant and leads are readily solderable
- ✧ RoHS compliant
- ✧ Matte Tin (Sn) lead finish
- ✧ Color band indicates negative polarity

### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Type Number	Symbol	Value	Units
Power Dissipation	$P_d$	500	mW
Maximum Forward Voltage @ $I_F=200\text{mA}$	$V_F$	1.2	V
Storage Temperature Range	$T_{STG}$	-65 to + 200	°C
Operating Junction Temperature	$T_J$	+ 200	°C

**ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)**

Device	V <sub>Z</sub> @ I <sub>ZT</sub> (Volts) Nom	I <sub>ZT</sub> mA	Z <sub>ZT</sub> @ I <sub>ZT</sub> Ω Max	I <sub>R</sub> @ V <sub>R</sub> (μA) Max	V <sub>R</sub> Volts
LLZ2V0	2.0	5	100	120	0.5
LLZ2V2	2.2	5	100	120	0.7
LLZ2V4	2.4	5	100	120	1.0
LLZ2V7	2.7	5	110	100	1.0
LLZ3V0	3.0	5	120	50	1.0
LLZ3V3	3.3	5	120	20	1.0
LLZ3V6	3.6	5	100	10	1.0
LLZ3V9	3.9	5	100	5	1.0
LLZ4V3	4.3	5	100	5	1.0
LLZ4V7	4.7	5	80	5	1.0
LLZ5V1	5.1	5	80	5	1.5
LLZ5V6	5.6	5	60	5	2.5
LLZ6V2	6.2	5	60	5	3.0
LLZ6V8	6.8	5	20	2.0	3.5
LLZ7V5	7.5	5	20	0.5	4.0
LLZ8V2	8.2	5	20	0.5	5.0
LLZ9V1	9.1	5	25	0.5	6.0
LLZ10	10.0	5	30	0.2	7.0
LLZ11	11.0	5	30	0.2	8.0
LLZ12	12	5	30	0.2	9.0
LLZ13	13	5	35	0.2	10.0
LLZ15	15	5	40	0.2	11.0
LLZ16	16	5	40	0.2	12.0
LLZ18	18	5	45	0.2	13
LLZ20	20	5	45	0.2	15
LLZ22	22	5	30	0.2	17
LLZ24	24	5	35	0.2	19
LLZ27	27	5	45	0.2	21
LLZ30	30	5	55	0.2	23

**ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)**

Device	V <sub>z</sub> @ I <sub>zt</sub> (Volts) Nom	I <sub>ZT</sub> mA	Z <sub>ZT</sub> @ I <sub>ZT</sub> Ω Max	I <sub>R</sub> @ V <sub>R</sub> (uA) Max	V <sub>R</sub> Volts
LLZ33	33	5	65	0.2	25
LLZ36	36	5	75	0.2	27
ZZL39	39	5	85	0.2	30
LLZ43	43	5	90	0.2	33
LLZ47	47	5	90	0.2	36
LLZ51	51	5	110	0.2	39
LLZ56	56	5	110	0.2	43
LLZ62	62	2	201	0.2	47
LLZ68	68	2	230	0.2	51
LLZ75	75	2	240	0.2	56

- Notes:
1. The type numbers listed have zener voltage as shown and have a standard tolerance on the nominal zener voltage of  $\pm 5\%$ .
  2. For detailed information on price, availability and delivery of nominal zener voltages between the voltages shown and tighter voltage tolerances.
  3. The zener impedance is derived from the 60-cycle ac voltage, which results when an ac current having an rms value equal to 10% of the dc zener current (I<sub>ZT</sub> or I<sub>ZK</sub>) is superimposed to I<sub>ZT</sub> or I<sub>ZK</sub>.