



Zener diode

Features

- 1. High reliability
- 2. Very sharp reverse characteristic
- 3. Zener voltage 3.3V to 12V
- 4. V_Z -tolerance $\pm 5\%$



Applications

Voltage stabilization

Absolute Maximum Ratings

$T_j = 25\text{ }^\circ\text{C}$

Parameter	Test Conditions	Type	Symbol	Value	Unit
Power dissipation	$T_{amb} \leq 75\text{ }^\circ\text{C}$		P_V	500	mW
Z-current			I_Z	P_V/V_Z	mA
Junction temperature			T_j	200	$^\circ\text{C}$
Storage temperature range			T_{stg}	-65~+200	$^\circ\text{C}$

Stresses exceeding maximum ratings may damage the device. Maximum ratings are stress ratings only. Functional operation above the recommended operating conditions is not implied. Extended exposure to stresses above the recommended operating conditions may affect device reliability.

Electrical Characteristics

$T_j = 25\text{ }^\circ\text{C}$

Parameter	Test Conditions	Type	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 200\text{mA}$		V_F			1.5	V



Type	$V_{Znom}^{1)}$	I_{ZT} for Z_{ZT}		I_R at V_R	$I_{ZM}^{2)}$
	V	mA	Ω	μA	
MLL746A	3.3	20	28	10	110
MLL747A	3.6	20	24	10	100
MLL748A	3.9	20	23	10	95
MLL749A	4.3	20	22	2	85
MLL750A	4.7	20	19	2	75
MLL751A	5.1	20	17	1	70
MLL752A	5.6	20	11	1	65
MLL753A	6.2	20	7	0.1	60
MLL754A	6.8	20	5	0.1	55
MLL755A	7.5	20	6	0.1	50
MLL756A	8.2	20	8	0.1	45
MLL757A	9.1	20	10	0.1	40
MLL758A	10	20	17	0.1	35
MLL759A	12	20	30	0.1	30

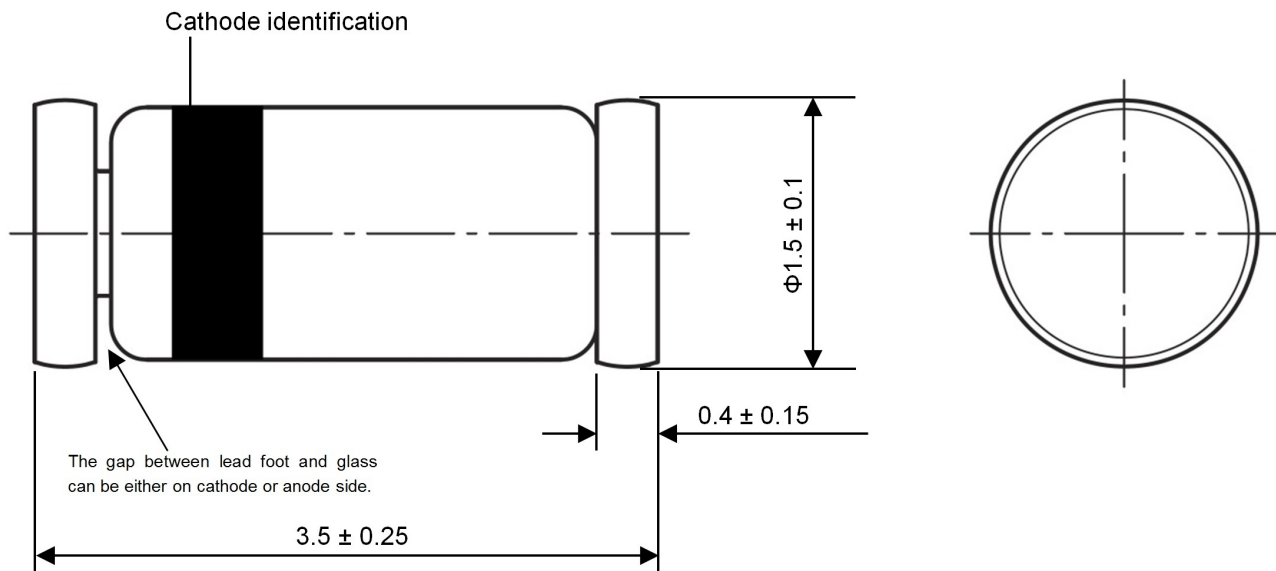
1) Tolerance and voltage designation (Vz):

The type numbers shown have a standard tolerance of $\pm 5\%$ on the nominal zener voltage, C for $\pm 2\%$, D for $\pm 1\%$.

2) Maximum zener current ratings (I_{ZM}):

Maximum zener current ratings are based on maximum zener voltage of the individual units and JEDEC 250 mW rating.

Dimensions in mm



Glass Case
Mini Melf / SOD-80
JEDEC DO-213 AA