

ZMU100 - ZMU180

V_Z : 100 to 180V

P_D : 1W

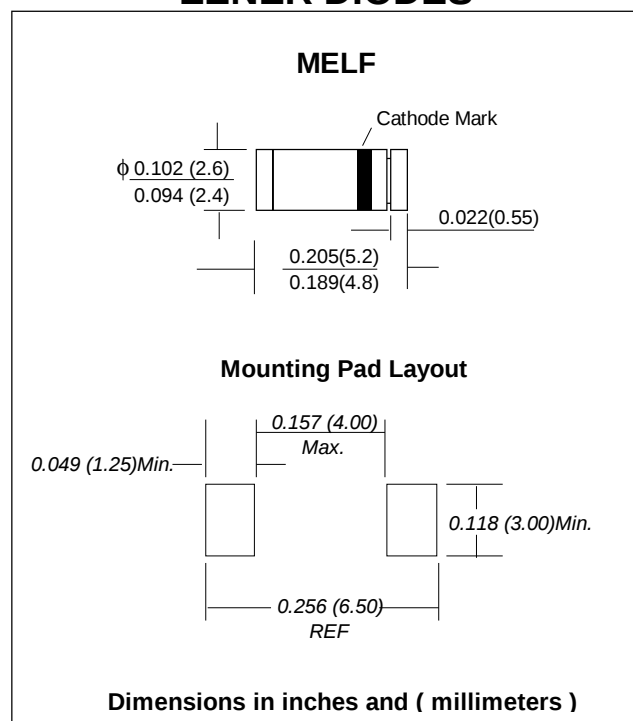
FEATURES :

- * Silicon planar power zener diodes
- * For use in stabilizing and clipping circuits with higher power rating.
- * The zener voltages are graded according to the tolerances are available upon request.
- * These diodes are also available in the DO-41 case with the type designation ZPU100 ... ZPU180.
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : MELF Glass Case
- * Weight : 0.25 g

ZENER DIODES



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	1 ⁽¹⁾	W
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	170 ⁽¹⁾	°C/W
Junction temperature	T_J	-65 to + 150	°C
Storage temperature range	T_S	-65 to + 150	°C

Notes: (1) Valid provided that electrodes are kept at ambient temperature

Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

Type	Zener Voltage V_Z @ I_{ZT}		Test Current I_{ZT}	Maximum Zener Impedance $f = 1\text{kHz}$ Z_{ZT} @ I_{ZT}	Reverse Voltage at $I_R = 0.5\text{mA}$ V_R	Admissible Zener current ⁽²⁾ I_Z	Temp. Coeff. Of Zener Voltage at I_{ZT} a_{VZ} ($10^{-4}/^{\circ}\text{C}$)	
	Min (V)	Max (V)					Min	Max
ZMU100	88	110	5	140 (<300)	>75	7	9	13
ZMU120	107	134	5	170 (<330)	>90	6	9	13
ZMU130	130	165	5	200 (<360)	>112	5	9	13
ZMU180	160	200	5	220 (<380)	>134	4	9	13

Notes:

(1) Tested with pulses $t_p = 5\text{ms}$

(2) Valid provided that electrodes are kept at ambient temperature