

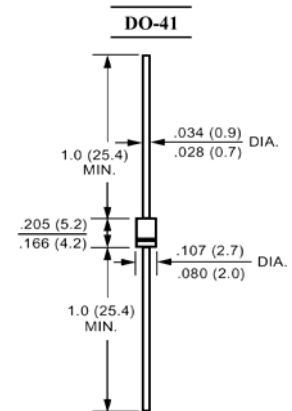
ZPU100 THRU ZPU180

Silicon Planar Zener Diodes

for use in stabilizing and clipping circuits with higher power rating. The Zener voltages are graded according to the international E12 standard. Smaller voltage tolerances are available upon request. These diodes are also available in MELF Glass case with the type designation ZMU100...ZMU180.

Mechanical Data

- Case: molded plastic, DO-41



Dimensions in inches and (millimeters)

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Power Dissipation	P_{tot}	1.3 ¹⁾	W
Junction Temperature	T_j	175	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 175	$^\circ\text{C}$

¹⁾ Valid provided that leads at a distance of 10 mm from case are kept at ambient temperature.

Characteristics at $T_a = 25^\circ\text{C}$

Type	Zener Voltage ²⁾ at I_{ZT} V_Z (V)		Max. Dynamic Resistance at I_{ZT} Z_{ZT} (Ω)	Temp. Coeff. of Zener Voltage at I_{ZT} α_{VZ} ($10^{-4}/^\circ\text{C}$)		Test Current I_{ZT} (mA)	Min. Reverse Voltage at $I_R = 0.5 \mu\text{A}$ V_R (V)	Admissible Zener Current ¹⁾ I_Z (mA)
	Min.	Max.		Min.	Max.			
ZPU100	88	110	300	+ 9	+13	5	75	10
ZPU120	107	134	330	+ 9	+13	5	90	8.5
ZPU150	130	165	360	+ 9	+13	5	112	7
ZPU180	160	200	380	+ 9	+13	5	134	5.5

¹⁾ Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.

²⁾ Tested with pulses $t_p = 20$ ms.

