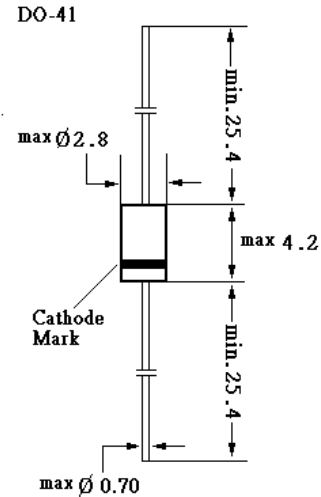


# ZPU100 THRU ZPU180

## 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 case with the type designation ZMU100...ZMU180.



Dimensions in mm

### Absolute Maximum Ratings (T<sub>a</sub> = 25°C)

	Symbol	Value	Unit
Zener Current (see Table "Characteristics" )			
Power Dissipation	P <sub>tot</sub>	1.3 <sup>(1)</sup>	W
Thermal Resistance Junction to Ambient Air	R <sub>θJA</sub>	130 <sup>(1)</sup>	°C/W
Junction Temperature	T <sub>j</sub>	175	°C
Storage Temperature Range	T <sub>s</sub>	-55 to +175	°C

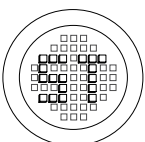
Notes: (1) Valid provided that leads at a distance of 10mm from case are kept at ambient temperature.

### Characteristics at T<sub>a</sub> = 25°C

TYPE	Zener Voltage <sup>(2)</sup> at I <sub>ZT</sub> V <sub>Z</sub> (V)		Dynamic Resistance at I <sub>ZT</sub> f = 1KHz r <sub>Zj</sub> (Ω)	Temp. Coeff. of Zener Voltage at I <sub>ZT</sub> α <sub>VZ</sub> (10 <sup>-4</sup> /°C)		Test Current I <sub>ZT</sub> (mA)	Reverse Voltage at I <sub>R</sub> =0.5μA V <sub>R</sub> (V)	Admissible Zener Current <sup>(1)</sup> at T <sub>amb</sub> = 25°C I <sub>Z</sub> (mA)
	Min.	Max.		Min.	Max.			
ZPU100	88	110	140(<300)	+9	+13	5	>75	10
ZPU120	107	134	170(<330)	+9	+13	5	>90	8.5
ZPU150	130	165	200(<360)	+9	+13	5	>112	7
ZPU180	160	200	220(<380)	+9	+13	5	>134	5.5

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

(2) Tested with pulses tp=20ms.



®

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