ZPU100 - ZPU180

ZENER DIODES

V_Z : 100 to 180V
P_D : 1.3W

FEATURES :

* Glass passivated junction chip
* For use in stabilizing and clipping circuits with higher power rating.
* Other tolerances are available upon request.
* Pb / RoHS Free

MECHANICAL DATA :

* Case : DO-41 Molded plastic
* Epoxy : UL94V-O rate flame retardant
* Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
* Polarity : Color band denotes cathode end
* Mounting position : Any
* Weight : 0.335 gram

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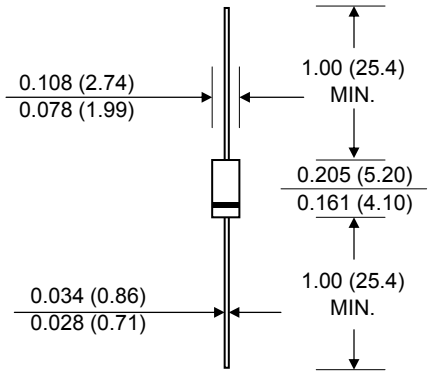

Dimensions in inches and (millimeters)

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	1.3(1)	W
Thermal Resistance Junction to Ambient Air	$R_{\Theta JA}$	130(1)	°C/W
Junction temperature	T_J	175	°C
Storage temperature range	T_{STG}	-55 to + 175	°C

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

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

Type No.	Zener Voltage (1) V_Z @ I_{ZT}		Test Current I_{ZT}	Dynamic Resistance at I_{ZT}, f = 1kHz rzj	Reverse Voltage at I_R = 0.5 μA V_R	Admissible Zener current(2) I_Z	Temp. Coeff. of Zener Voltage at I_{ZT} α_{VZ} (10^{-4}/°C)	
	Min.	Max.						
	(V)	(V)	(mA)	(Ω)	(V)	(mA)	Min.	Max.
ZPU100	88	110	5	140 (<300)	>75	10	+9	+13
ZPU120	107	134	5	170 (<330)	>90	8.5	+9	+13
ZPU150	130	165	5	200 (<360)	>112	7	+9	+13
ZPU180	160	200	5	220 (<380)	>134	5.5	+9	+13

Notes :

(1) Tested with pulses tp = 5 ms

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