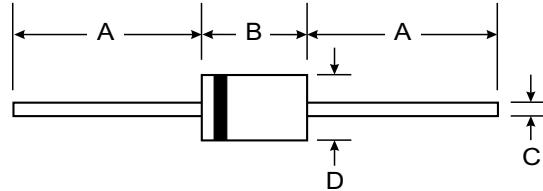


### Features

- Planar Die Construction
- 1.3W Power Dissipation
- Zener Voltages Available from 100V - 180V
- Hermetic Glass Package for High Reliability



### Mechanical Data

- Case: DO-41, Glass
- Leads: Solderable per MIL-STD-202, Method 208
- Polarity: Color Band Denotes Cathode
- Weight: 0.3 grams (approx)
- Mounting Position: Any

DO-41		
Dim	Min	Max
A	25.4	—
B	4.1	5.2
C	0.71	0.86
D	2.0	2.7
All Dimensions in mm		

### Maximum Ratings and Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

Characteristics	Symbol	Value	Unit
Zener Current see Table below	—	—	—
Maximum Power Dissipation (Note 1)	P <sub>d</sub>	1.3	W
Maximum Thermal Resistance Junction to Ambient Air (Note 1)	R <sub>θJA</sub>	130	°C/W
Storage and Operating Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-55 to +200	°C

### Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

Type	Zener Voltage Range (Note 2)	Test Current	Maximum Dynamic Impedance	Typ. Temperature Coefficient	Minimum Reverse Voltage	Maximum Zener Current (Note 1)
	V <sub>Z</sub> @ I <sub>ZT</sub>	I <sub>ZT</sub>	Z <sub>ZT</sub> @ I <sub>ZT</sub>	@ I <sub>ZT</sub>	V <sub>R</sub> @ I <sub>R</sub> = 0.5 μA	I <sub>ZM</sub>
	Volts	mA	Ohms	%/°C	Volts	mA
ZPU100	88-110	5	300	+110	75	11.8
ZPU120	107-134	5	330	+110	90	9.7
ZPU150	130-165	5	360	+110	112	7.87
ZPU180	160-200	5	380	+110	134	6.5

Notes: 1. Valid provided that leads are kept at ambient temperature at a distance of 10mm from case.  
2. Tested with pulses tp = 20 ms.

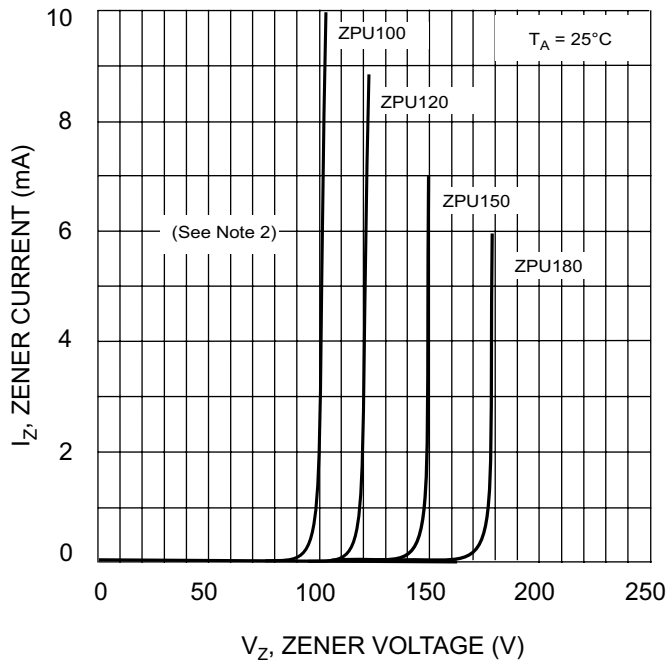


Fig. 1 Zener Breakdown Characteristics

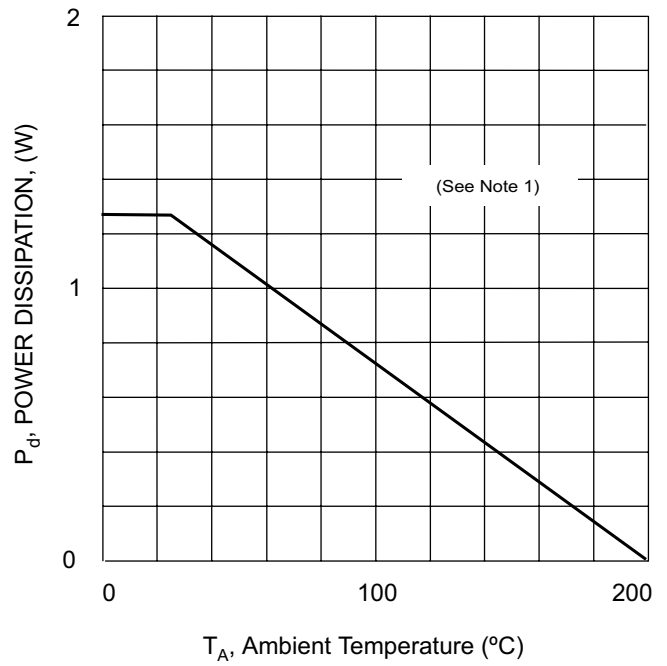


Fig. 2 Power Derating Curve

- Notes:
1. Valid provided that leads are kept at ambient temperature at a distance of 10mm from case.
  2. Tested with pulses  $t_p = 20$  ms.