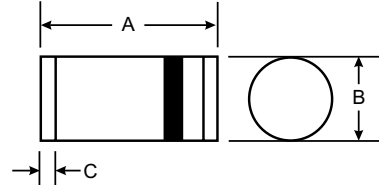


Features

- 1.0 Watt Dissipation Rating
- Planar Die Construction
- 100V -180V Nominal Zener Voltages
- Hermetic Glass Body for High Reliability



Mechanical Data

- Case: Glass, MELF
- Terminals: Solderable Per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.25 grams (approx.)

MELF		
Dim	Min	Max
A	4.8	5.2
B	2.4	2.5
C	0.4 Nominal	
All Dimensions in mm		

Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristics	Symbol	Value	Unit
Zener Current (see Table)	—	—	—
Power Dissipation (Note 1)	P_d	1.0	W
Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{\theta JA}$	150	K/W
Operating and Storage Temperature Range	T_j, T_{STG}	-55 to +175	$^\circ\text{C}$

Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Type Number	Zener Voltage Range (Note 2)	Maximum Dynamic Impedance	Typ. Temperature Coefficient of Zener Voltage	Test Current	Minimum Reverse Voltage	Maximum Zener Current (Note 1)
	$V_Z @ I_{ZT}$	$Z_{ZT} @ I_{ZT}$	@ I_{ZT}	I_{ZT}	$V_R @ I_R = 0.5 \mu\text{A}$	I_{ZM}
	Volts	Ohms	$\%/^\circ\text{C}$	mA	Volts	mA
ZMU100	88-110	300	+110	5	75	7
ZMU120	107-134	330	+110	5	90	6
ZMU150	130-165	360	+110	5	112	5
ZM33U180	160-200	380	+110	5	134	4

- Notes:
1. Valid provided that electrodes are kept at specified ambient temperature
 2. Tested with pulses $t_p = 20$ ms.

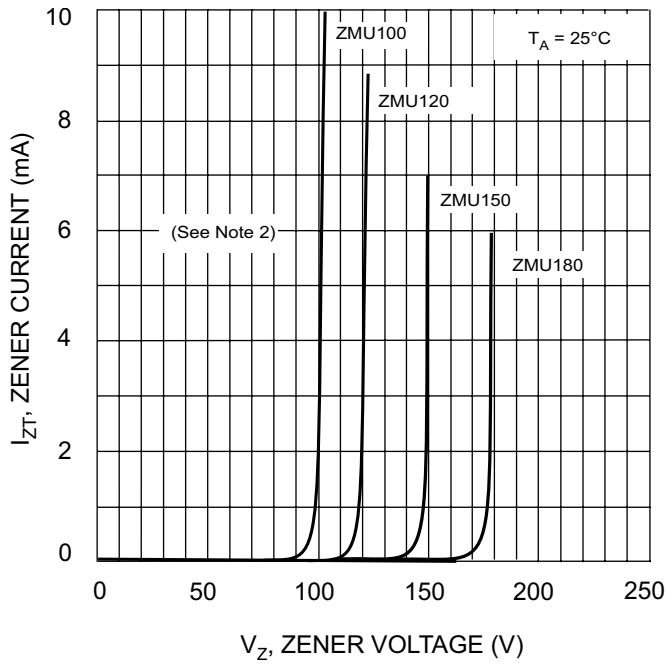


Fig. 1 Zener Breakdown Characteristics

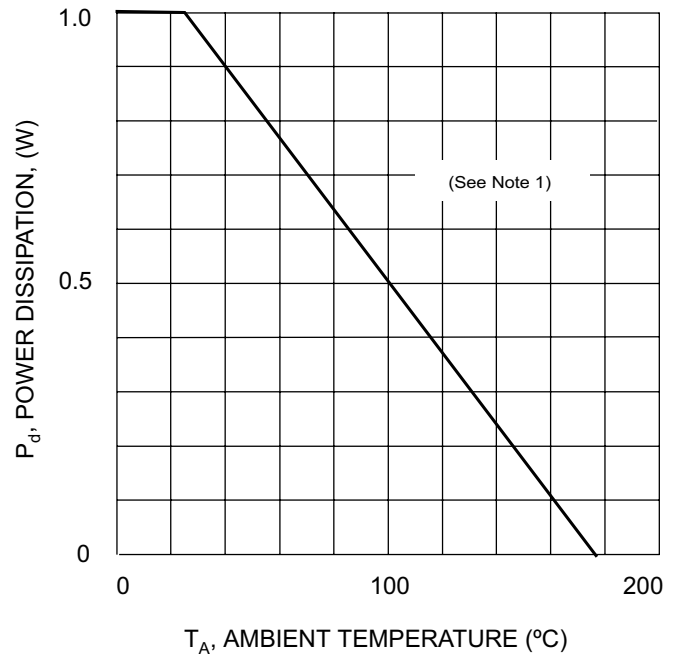


Fig. 2 Power Derating Curve