

Zener Diode

UMZ8.2T

● Applications

Constant voltage control

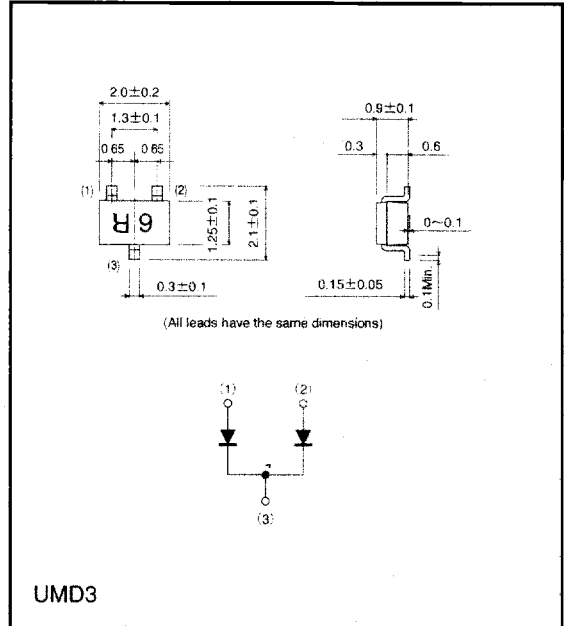
● Features

- 1) Designed for mounting on small surface areas (UMD3)
- 2) High reliability
- 3) Composite type with two cathode/common elements

● Construction

Silicon epitaxial planar

● External dimensions (Units: mm)



● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Power dissipation	P	200	mW
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55~150	°C

● Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	V _Z	7.76	—	8.64	V	I _Z =5mA
Reverse current	I _R	—	—	0.50	μA	V _R =5V
Operating resistance	Z _Z	—	—	30	Ω	I _Z =5mA
Rising operating resistance	Z _{ZK}	—	—	60	Ω	I _Z =0.5mA

● Electrical characteristic curves (Ta=25°C)

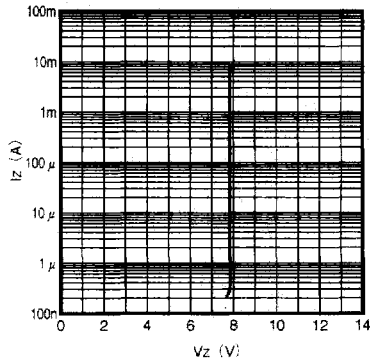


Fig. 1 Zener voltage characteristic

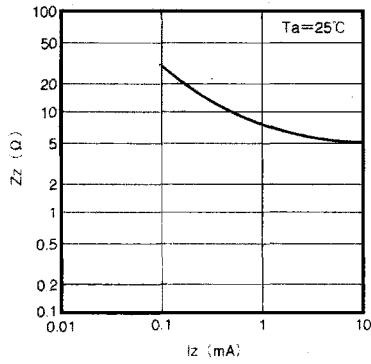


Fig. 2 $Z_z - I_z$ characteristic

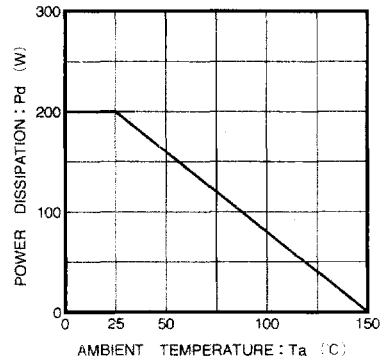


Fig. 3 Derating curve

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