

Zener Diode

UMZ8.2T

●Applications

Constant voltage control

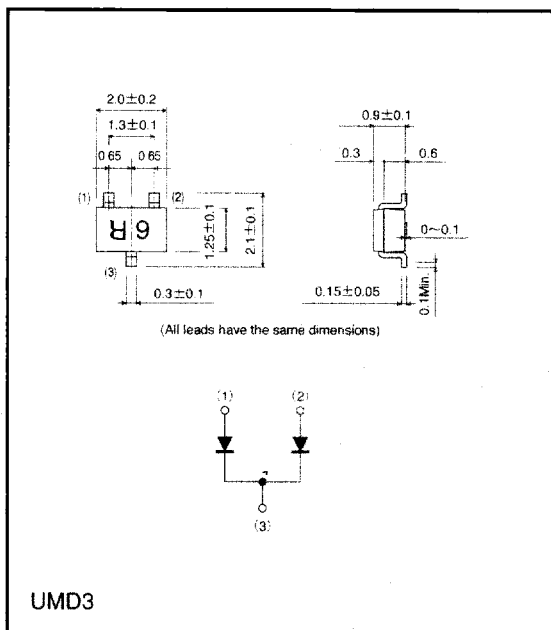
●Features

- 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 ($T_a=25^\circ\text{C}$)

Parameter	Symbol	Limits	Unit
Power dissipation	P	200	mW
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	$-55 \sim 150$	$^\circ\text{C}$

●Electrical characteristics ($T_a=25^\circ\text{C}$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	V_Z	7.76	—	8.64	V	$I_Z=5\text{mA}$
Reverse current	I_R	—	—	0.50	μA	$V_R=5\text{V}$
Operating resistance	Z_Z	—	—	30	Ω	$I_Z=5\text{mA}$
Rising operating resistance	Z_{ZK}	—	—	60	Ω	$I_Z=0.5\text{mA}$

● Electrical characteristic curves ($T_a=25^\circ\text{C}$)

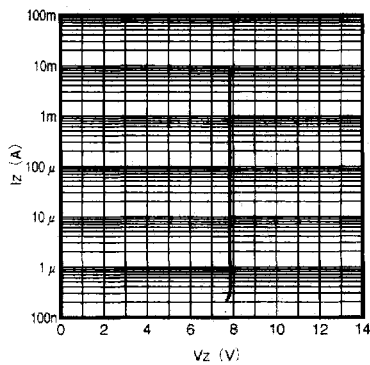


Fig. 1 Zener voltage characteristic

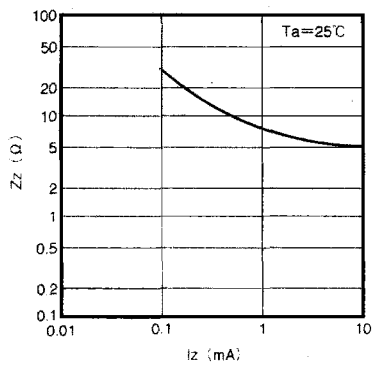
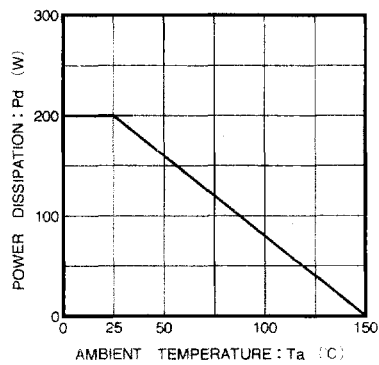
Fig. 2 $Z_Z - I_Z$ characteristic

Fig. 3 Derating curve

Zener diodes

Special zener diodes