

Zener diode

UMZ12N

● Applications

Constant voltage control

Noise suppression on signal line

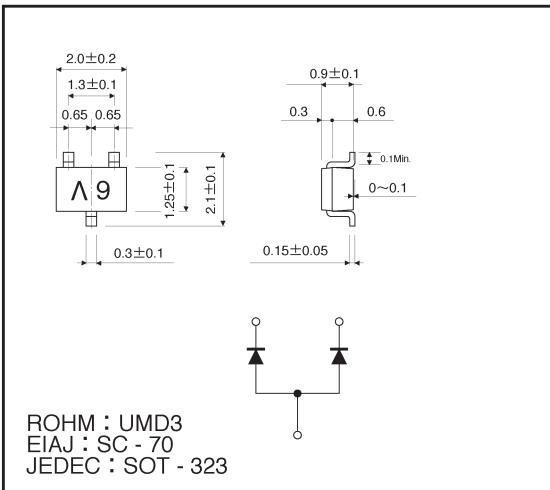
● Features

- 1) Compact mold type. (UMD3)
- 2) High reliability.
- 3) Multiple diodes with common anode configuration.

● 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	°C
Storage temperature	T _{stg}	-55~+150	°C

* Total of 2 elements

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

Parameter	Symbol	Min.	Max.	Unit	Conditions
Zener voltage	V _z	11.0	13.0	V	I _z =5mA
Reverse current	I _R	—	0.10	μA	V _R =9V
Operating resistance	Z _z	—	30	Ω	I _z =5mA
Rising operating resistance	Z _{zk}	—	80	Ω	I _z =0.5mA

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

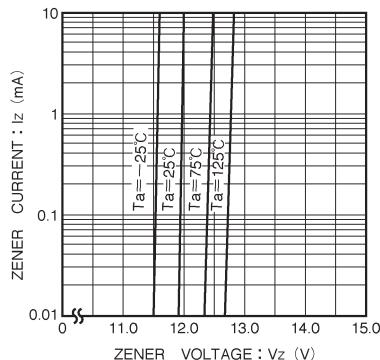


Fig. 1 Zener voltage characteristics

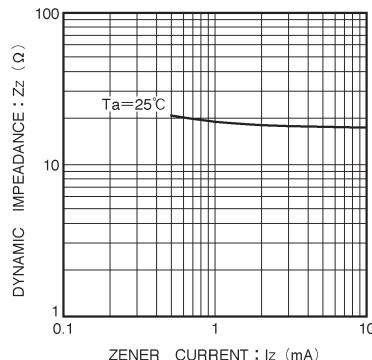


Fig. 2 Operating resistance
Zener current characteristics

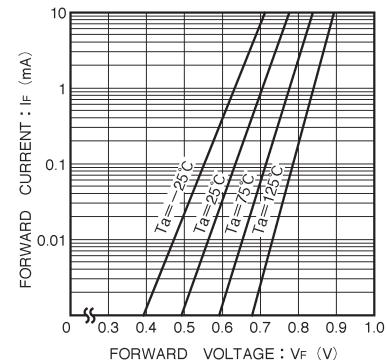


Fig. 3 Forward characteristics

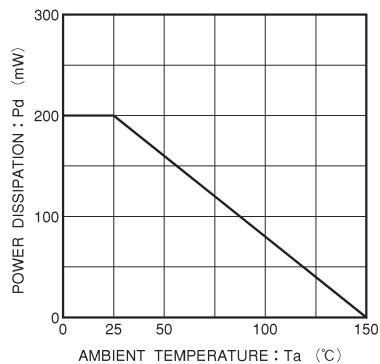


Fig. 4 Derating curve