

# Zener diode

## UMZ12N

### ●Applications

Constant voltage control  
Noise suppression on signal line

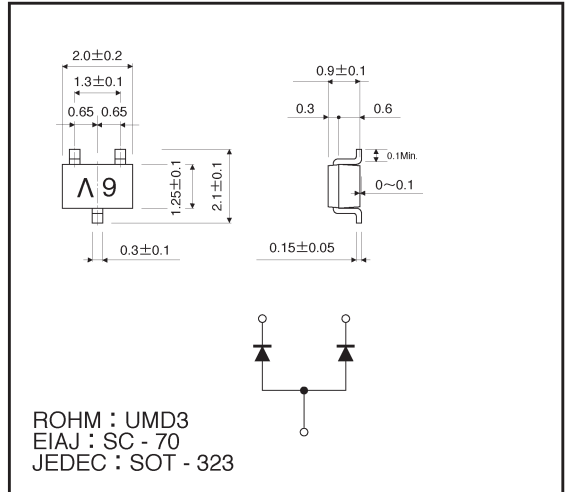
### ●Features

- 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 (Ta = 25°C)

Parameter	Symbol	Limits	Unit
Power dissipation	P *	200	mW
Junction temperature	T <sub>J</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55~+150	°C

\* Total of 2 elements

### ●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Max.	Unit	Conditions
Zener voltage	V <sub>Z</sub>	11.0	13.0	V	I <sub>Z</sub> =5mA
Reverse current	I <sub>R</sub>	—	0.10	μA	V <sub>R</sub> =9V
Operating resistance	Z <sub>Z</sub>	—	30	Ω	I <sub>Z</sub> =5mA
Rising operating resistance	Z <sub>ZK</sub>	—	80	Ω	I <sub>Z</sub> =0.5mA

●Electrical characteristic curves (Ta = 25°C unless specified otherwise)

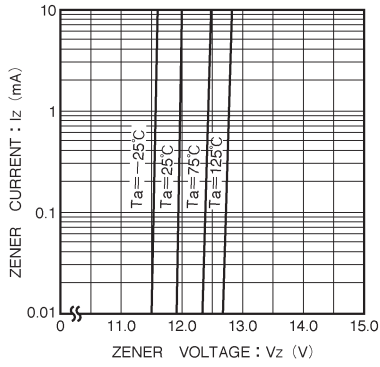


Fig. 1 Zener voltage characteristics

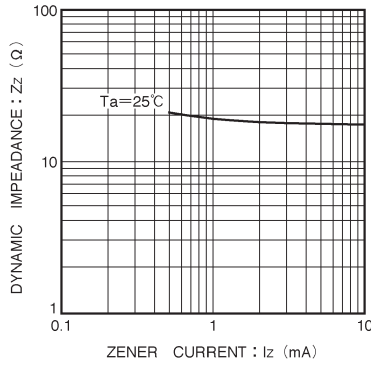


Fig. 2 Operating resistance  
Zener current characteristics

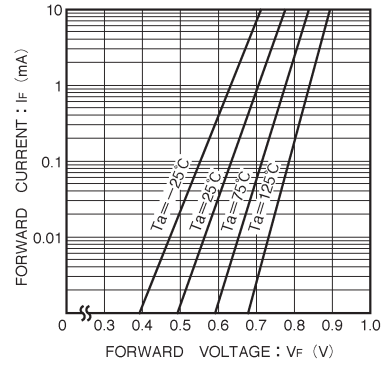


Fig. 3 Forward characteristics

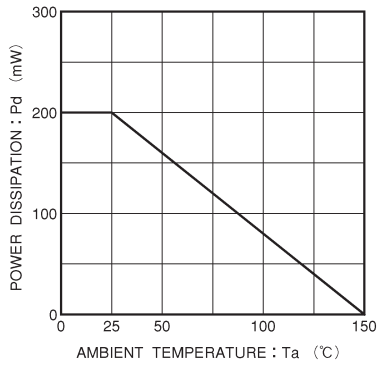


Fig. 4 Derating curve