

MAZLxxxH Series

Silicon planar type

For surge absorption circuit

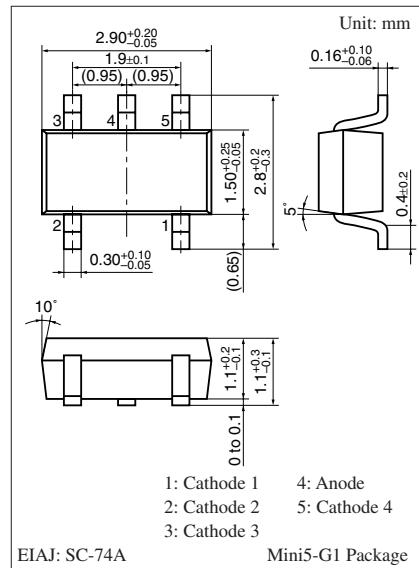
■ Features

- Four elements anode-common type
- Power dissipation P_D : 200 mW

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Power dissipation *	P_D	200	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

Note) *: $P_D = 200$ mW achieved with a printed circuit board.



■ Common Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Zener voltage*	V_Z	I_Z Specified value				V
Zener rise operating resistance	R_{ZK}	I_Z Specified value	Refer to the list of the electrical characteristics within part numbers			Ω
Zener operating resistance	R_Z	I_Z Specified value				Ω
Reverse current	I_R	V_R Specified value				μA

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

2. Electrostatic breakdown voltage: ± 10 kV

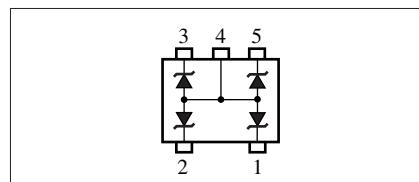
Test method: IEC1000-4-2 (C = 150 pF, R = 330 Ω, Contact discharge: 10 times)

3. *: The temperature must be controlled 25°C for V_Z measurement.

V_Z value measured at other temperature must be adjusted to V_Z (25°C)

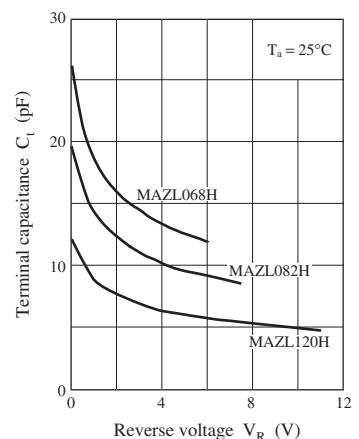
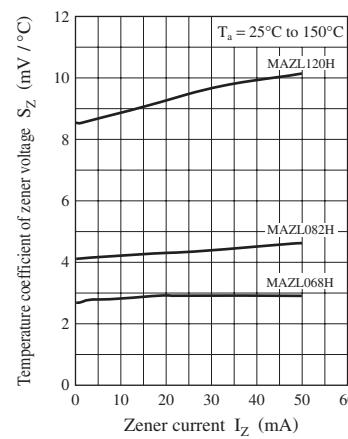
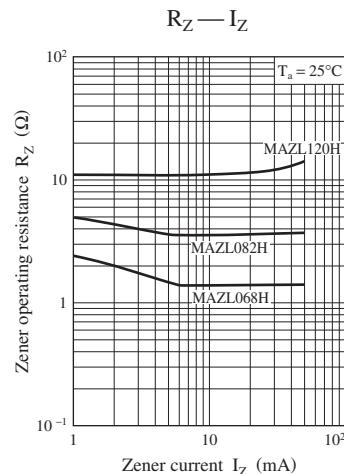
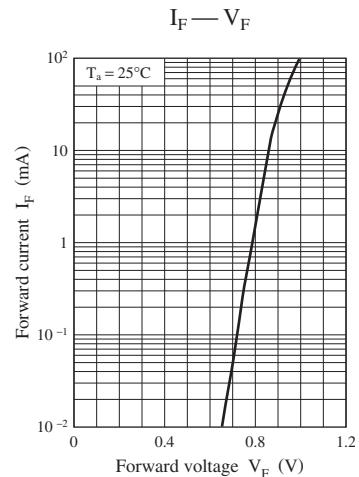
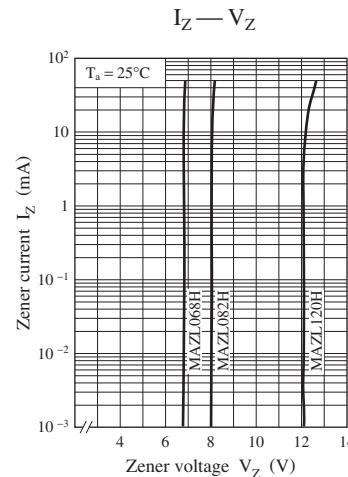
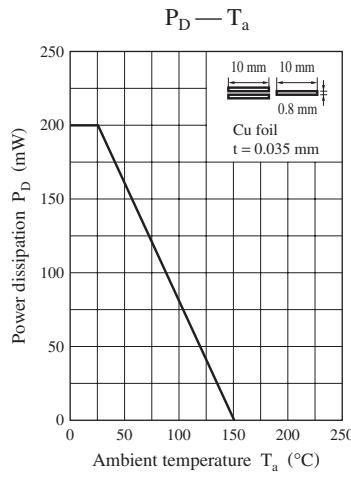
V_Z guaranteed 20 ms after current flow.

Internal Connection



■ Electrical characteristics within part numbers $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Part number	Zener voltage				Reverse current		Zener operating resistance $R_Z (\Omega)$ $I_Z = 5 \text{ mA}$	Zener rise operating resistance $R_{ZK} (\Omega)$ $I_Z = 0.5 \text{ mA}$	Marking symbol			
	V _Z (V)			I_Z (mA)	I_R (mA)	V _R (V)						
	Min	Nom	Max									
MAZL068H	6.4	6.8	7.2	5	0.1	4	30	60	6.8Z			
MAZL082H	7.7	8.2	8.7	5	0.1	5	30	60	8.2Z			
MAZL120H	11.4	12.0	12.7	5	0.05	9	30	80	12Z			



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