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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



MAZLxxxH Series

Silicon planar type

For surge absorption circuit

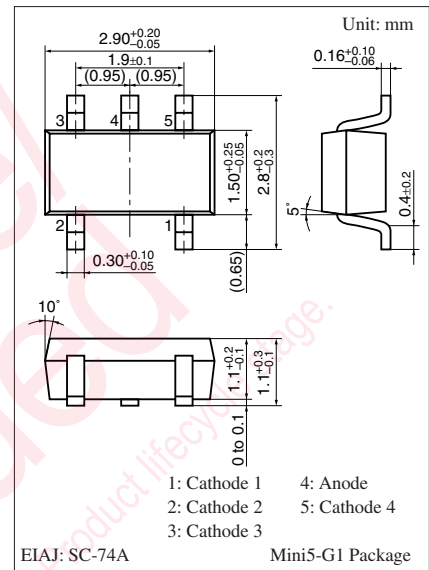
■ Features

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

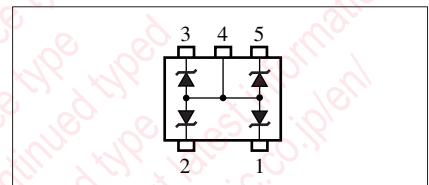
■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

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

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



Internal Connection



■ 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				Ω
Zener operating resistance	R_Z	I_Z Specified value				Ω
Reverse current	I_R	V_R Specified value				μA

Refer to the list of the electrical characteristics within part numbers

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)

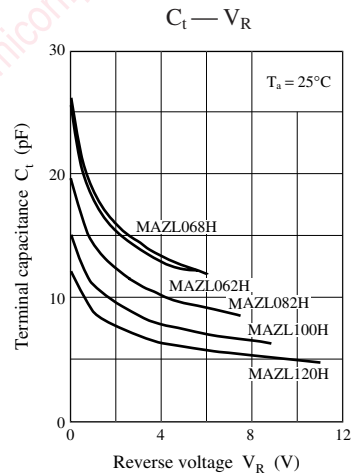
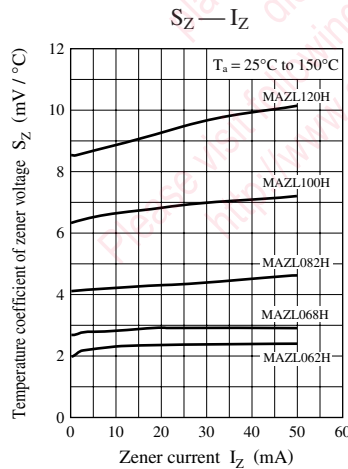
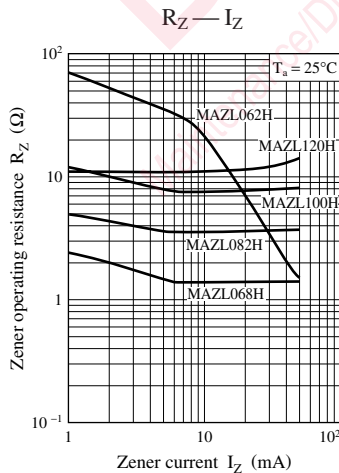
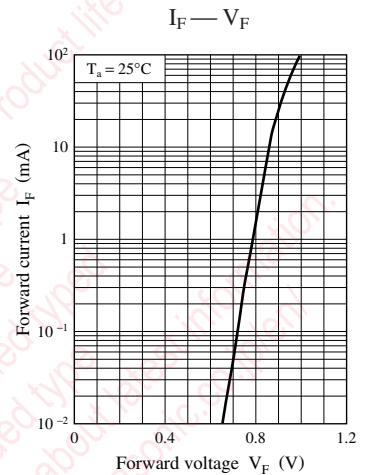
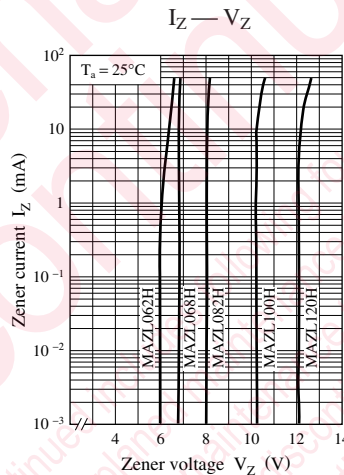
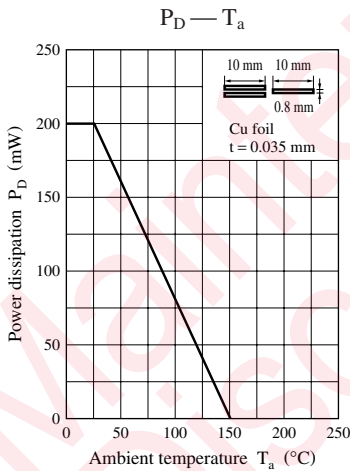
3. *: The temperature must be controlled 25°C for V_Z measurement.

V_Z value measured at other temperature must be adjusted to $V_Z (25^\circ\text{C})$

V_Z guaranteed 20 ms after current flow.

■ 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 (Ω) $I_Z = 5 \text{ mA}$ Max	Zener rise operating resistance R_{ZK} (Ω) $I_Z = 0.5 \text{ mA}$ Max	Marking symbol
	V_Z (V)				I_R (mA)				
	Min	Nom	Max	I_Z (mA)	Max	V_R (V)			
MAZL062H	5.8	6.2	6.6	5	0.2	4	50	100	6.2Z
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
MAZL100H	9.4	10.0	10.6	5	0.05	7	30	60	10Z
MAZL120H	11.4	12.0	12.7	5	0.05	9	30	80	12Z



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