MAZW000H Series

Silicon planar type

For surge absorption circuit

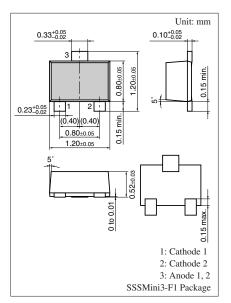
■ Features

- Two elements anode-common type
- SSS-Mini type 3-pin package

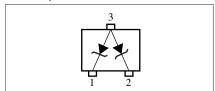
■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Total power dissipation *	P _{tot}	150	mW	
Junction temperature	T_{j}	150	°C	
Storage temperature	T_{stg}	-55 to +150	°C	

Note) *: P_{tot} = 150 mW achieved with a printed circuit board.



Internally connected circuit



■ Common Electrical Characteristics $T_a = 25$ °C ± 3 °C

Parameter	Symbol		Conditions	Min	Тур	Max	Unit
Zener voltage *	Vz	I_Z	Specified value —				V
Zener rise operating resistance	R _{ZK}	I_Z	Specified value	Refer to the list of the electrical characteristics —			Ω
Zener operating resistance	R _Z	I_Z	Specified value	within part n			Ω
Reverse current	I_R	V _R	Specified value				μΑ

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

2. Electrostatic breakdown voltage is ±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 mesurement.

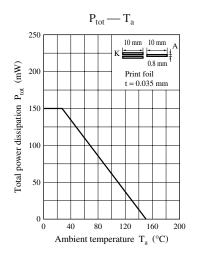
 V_Z value measured at other temperature must be adjusted to $V_Z\,(25^{\circ}C)$

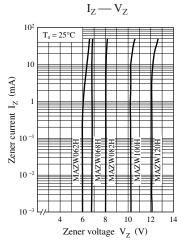
 $\ensuremath{V_{Z}}$ guaranted 20 ms after current flow.

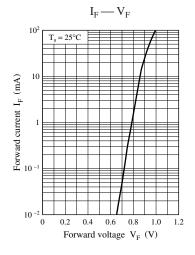
■ Electrical characteristics within part numbers $T_a = 25^{\circ}C \pm 3^{\circ}C$

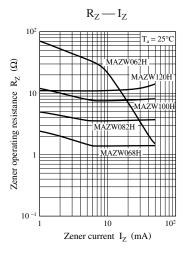
	Zener voltage			Reverse current (DC)		Zener operating resistance			
Part number V _Z (V)		I _R (μA)		$R_Z(\Omega)$	$R_{ZK}(\Omega)$	Marking symbol			
	Min	Nom	Max	(mA)	Max	V _R (V)	I _Z = 5 MA Max	$I_Z = 0.5 \text{ mA}$ Max	
MAZW062H	5.8	6.2	6.6	5	0.2	4	50	100	62
MAZW068H	6.4	6.8	7.2	5	0.1	4	30	60	68
MAZW082H	7.7	8.2	8.7	5	0.1	5	30	60	82
MAZW100H	9.4	10.0	10.6	5	0.05	7	30	60	10
MAZW120H	11.4	12.0	12.7	5	0.05	9	30	60	12

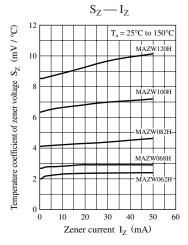
Note) 1. The V_Z value is the one after power application for 20 ms at $T_a = 25$ °C.

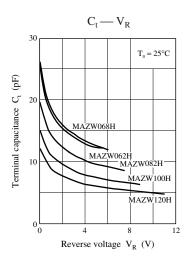












^{2.} The zener voltage temperature coefficient is the one for $T_i = 25$ °C to 150°C.

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