MAZT000H Series

Silicon planar type

For surge absorption circuit

Features

- Two elements anode-common type
- $P_{tot} = 150 \text{ mW}$

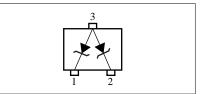
0.28±0.05	Unit: mm
(0.51) (0.80) (0.80) (0.60) (0.80)	0.12 ^{+0.05} (0.44) (0.375) (0.375) (0.375) (0.375) (0.375) (0.375) (0.375) (0.375) (0.375) (0.375) (0.375) (0.375) (0.44) (0.46)
	1: Cathode 1 2: Cathode 1 3: Anode 1, 2
EIAJ: SC-89	SSMini3-F2 Package

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

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

Note) *: With a printed circuit board

Internal Connection



Common Electrical Characteristics $T_a = 25^{\circ}C^{*1}$

Parameter	Symbol	Conditions			Min	Тур	Max	Unit
Zener voltage ^{*2}	VZ	IZ	Specified value					v
Zener knee operating resistance	R _{ZK}	IZ	Specified value	Refer to the list of the electrical characteristics —— within part numbers			Ω	
Zener operating resistance	R _Z	IZ	Specified value					Ω
Reverse current	I _R	V _R	Specified value					μΑ

Note) 1. Test method according to the JIS C7031 testing

2. Electrostatic breakdown voltage is $\pm 10 \text{ kV}$

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

3. *1: The V_Z value is for the temperature of 25°C. In other cases, carry out the temperature compensation.

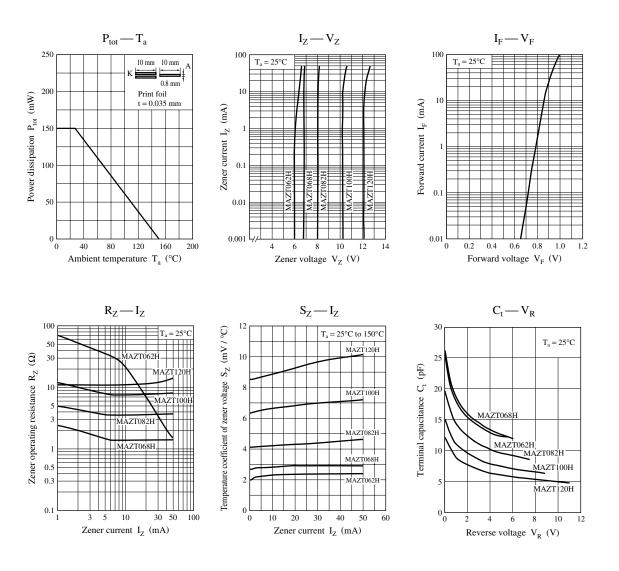
*2: Guaranteed at 20 ms after power application.

	Zener voltage				Reverse current		Zener operating resistance			
Part number	V _Z (V)				I _R (μA) V _B		$\begin{array}{c c} R_{Z}\left(\Omega\right) & R_{ZK}\left(\Omega\right) \\ I_{Z} = 5 \text{ mA} & I_{Z} = 0.5 \text{ mA} \end{array}$		Marking symbol	
	Min	Nom	Max	(mA)	Max	(V)	Max	Max		
MAZT062H	5.8	6.2	6.6	5	0.2	4	50	100	6.2Z	
MAZT068H	6.4	6.8	7.2	5	0.1	4	30	60	6.8Z	
MAZT082H	7.7	8.2	8.7	5	0.1	5	30	60	8.2Z	
MAZT100H	9.4	10.0	10.6	5	0.05	7	30	60	10Z	
MAZT120H	11.4	12.0	12.7	5	0.05	9	30	80	12Z	

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

Note) 1. The V_Z value is the one after power application for 20 ms at $T_a = 25^{\circ}C$.

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



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