

MAZTxxxH Series

Silicon planar type

For surge absorption circuit

■ Features

- Two elements anode-common type
- Power dissipation P_D : 150 mW

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

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

Note) *: $P_D = 150$ mW achieved with a printed circuit board.

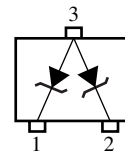
■ Package

- Pin Name
SSMini3-F2
- Pin Name
1: Cathode 1
2: Cathode 2
3: Anode

■ Marking Symbol

Refer to the list of the electrical characteristics within part numbers

■ 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	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.

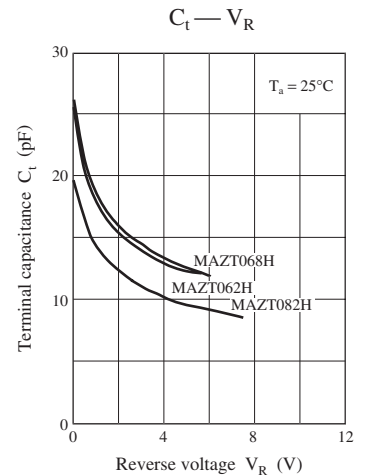
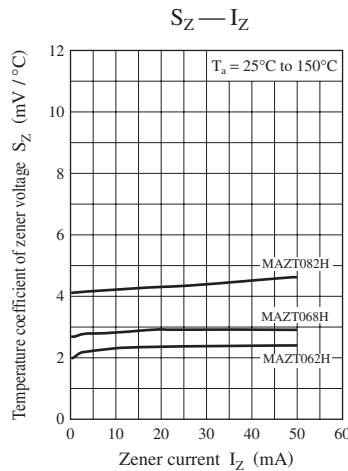
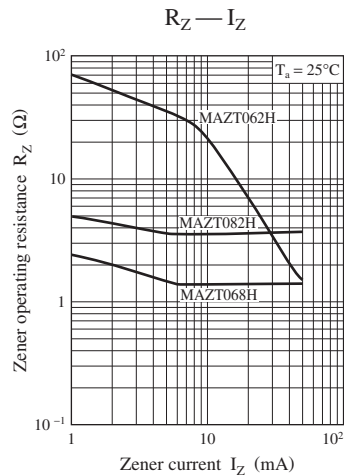
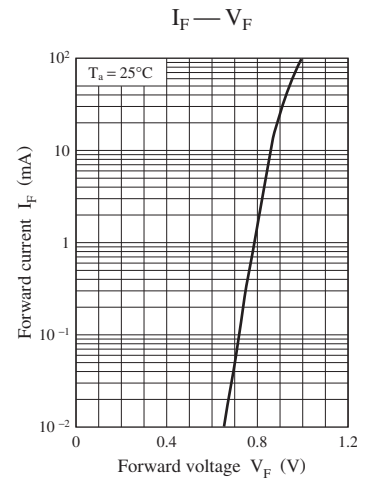
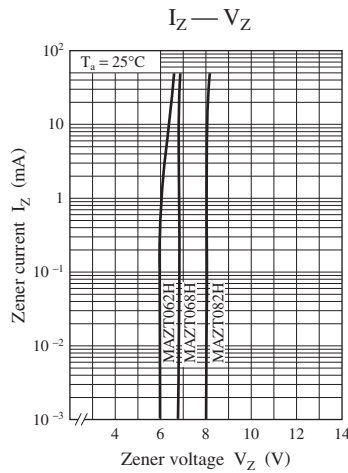
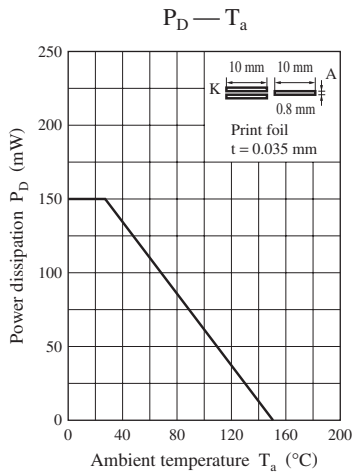
V_Z value measured at other temperature must be adjusted to $V_Z (25^\circ\text{C})$

V_Z guaranteed 20 ms after current flow.

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

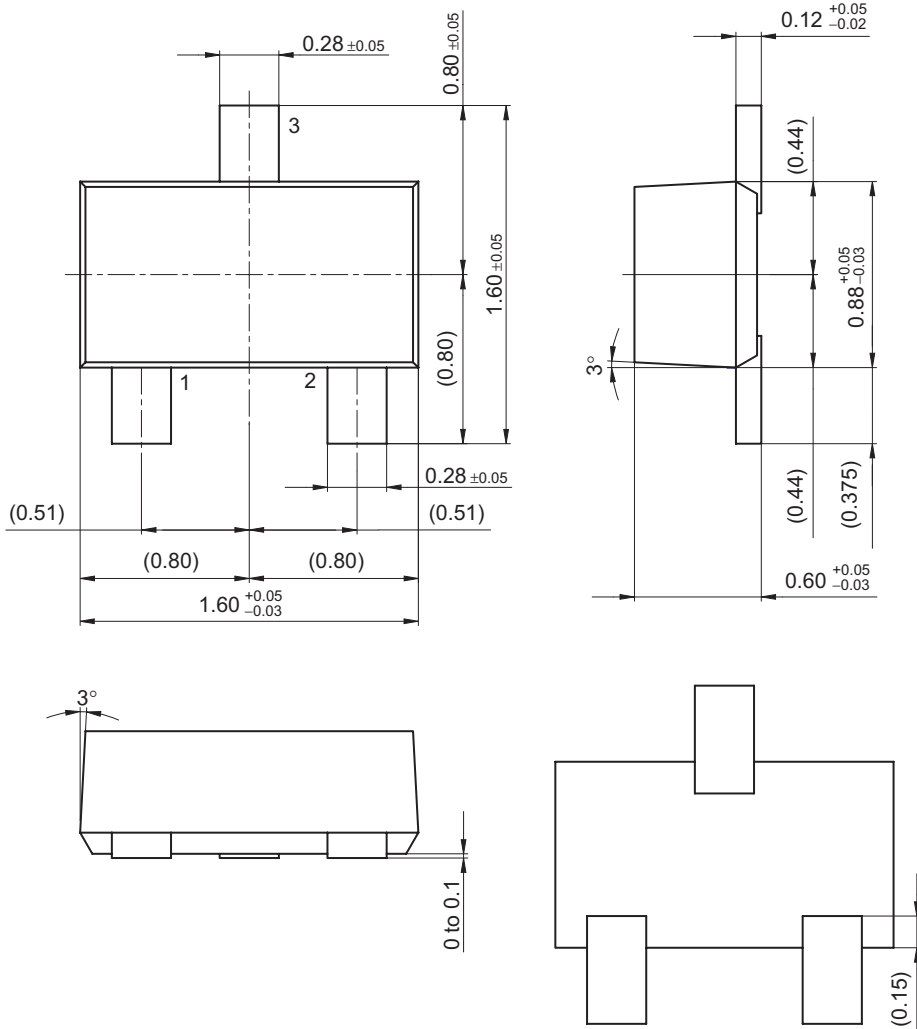
Part number	Zener voltage V_Z (V)				Reverse current I_R (mA)		Zener operating resistance R_Z (Ω)	Zener rise operating resistance R_{ZK} (Ω)	Marking symbol
	Min	Nom	Max	I_Z (mA)	Max	V_R (V)	$I_Z = 5 \text{ mA}$	$I_Z = 0.5 \text{ mA}$	
							Max	Max	
MAZT062H	5.8	6.2	6.6	5	0.2	4	50	100	6.2Z
MAZT068H	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

Note) *: $I_Z = 1.0 \text{ mA}$



SSMini3-F2

Unit: mm



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