# MAZE062D

### Silicon planar type

For surge absorption circuit

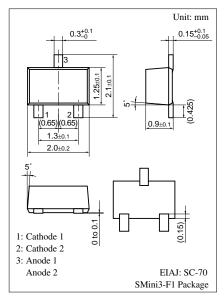
#### Features

- S-Mini type 3-pin package (SMini3-F1)
- Low joint capacity zener diode ( $V_Z = 6.2 \text{ V}$ )
- Two anode-common element wiring

#### ■ Absolute Maximum Ratings T<sub>a</sub> = 25°C Parameter Symbol Rating

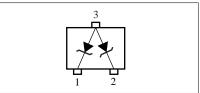
Parameter	Symbol	Rating	Unit
Instanious forward current	I <sub>FRM</sub>	200	mA
Total power dissipation*	P <sub>tot</sub>	150	mW
Junction temperature	Tj	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C

Note) \*: With a printed circuit board



#### Marking Symbol: 6.2C

#### Internal Connection



Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V <sub>F</sub>	$I_F = 10 \text{ mA}$		0.9	1.0	v
Zener voltage <sup>*2</sup>	VZ	$I_Z = 5 \text{ mA}$	5.9		6.5	v
Zener knee operating resistance	R <sub>ZK</sub>	$I_Z = 0.5 \text{ mA}$			100	Ω
Zener operating resistance	R <sub>Z</sub>	$I_Z = 5 \text{ mA}$			30	Ω
Reverse current	I <sub>R</sub>	$V_{R} = 5.5 V$			3	μΑ
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$		8		pF

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

Note) 1. Rated input/output frequency: 5 MHz

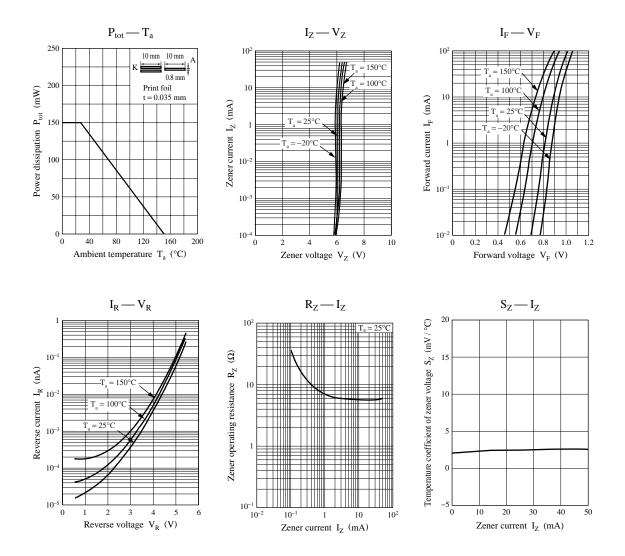
2. Test method according to the JIS C7031 testing

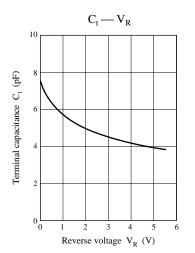
3. Electrostatic discharge is  $\pm 15$  kV Test method: IEC-801 (C = 150 pF, R = 330  $\Omega$ , Contact discharge: 10 times) Test unit: ESS-200AX

4. \*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.

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