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MAZE062D

Silicon planar type

For surge absorption circuit

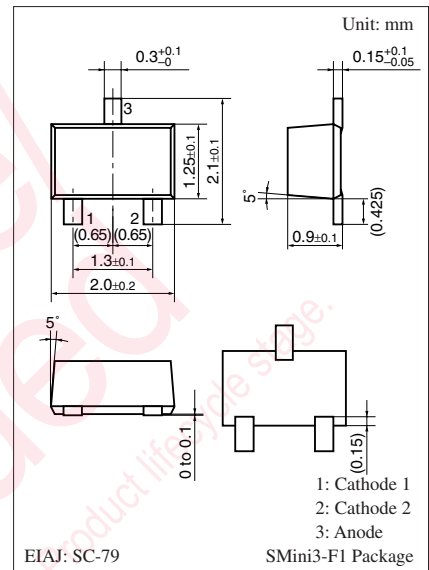
■ Features

- Low joint capacity zener diode

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

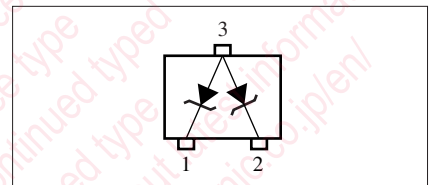
| Parameter | Symbol | Rating | Unit |
|---------------------------------|-----------|-------------|------------------|
| Repetitive peak forward current | I_{FRM} | 200 | mA |
| Power dissipation * | P_D | 150 | mW |
| Junction temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | -55 to +150 | $^\circ\text{C}$ |

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



Marking Symbol: 6.2C

Internal connection



■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|---------------------------------|----------|--------------------------|-----|-----|-----|---------------|
| Forward voltage | V_F | $I_F = 10$ mA | | 0.9 | 1.0 | V |
| Zener voltage * | V_Z | $I_Z = 5$ mA | 5.9 | | 6.5 | V |
| Zener rise operating resistance | R_{ZK} | $I_Z = 0.5$ mA | | | 100 | Ω |
| Zener operating resistance | R_Z | $I_Z = 5$ mA | | | 30 | Ω |
| Reverse current | I_R | $V_R = 5.5$ V | | | 3 | μA |
| Terminal capacitance | C_t | $V_R = 0$ V, $f = 1$ MHz | | 8 | | pF |

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

2. Absolute frequency of input and output is 5 MHz.

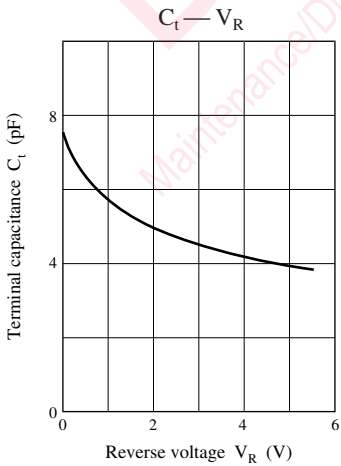
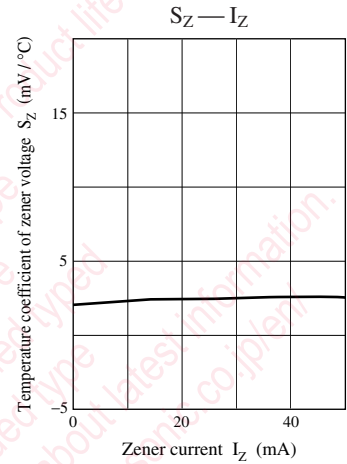
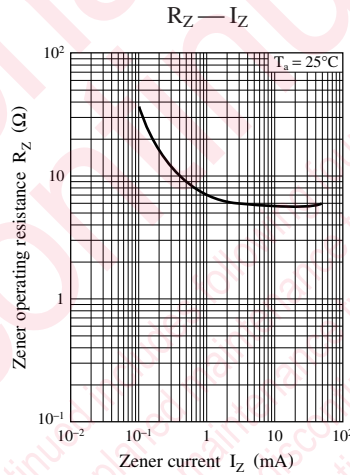
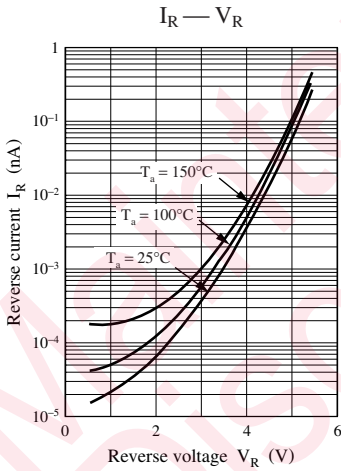
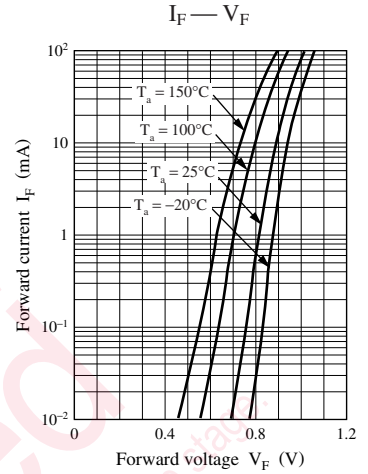
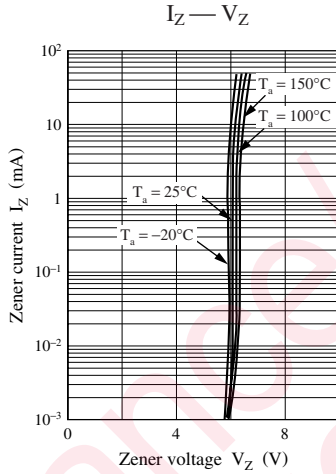
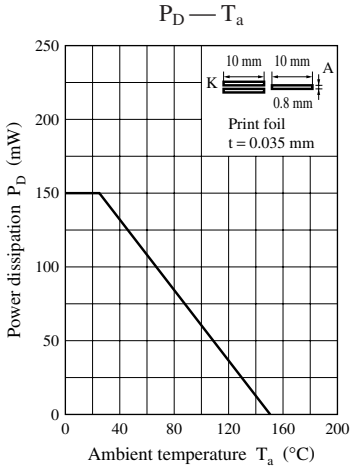
3. Electrostatic breakdown voltage: ± 15 kV

Test method: IEC-801 (C = 150 pF, R = 330 Ω , Contact discharge: 10 times)

Test unit: ESS-200AX

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

Guaranteed at 20 ms after power application.



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