Zener Diodes Panasonic

MALS062

Silicon planar type

For ESD protection

■ Features

- Electrostatic discharge ESD: ±30 kV
- SS-Mini 2 pin molde type package, optimum for high-density mounting.

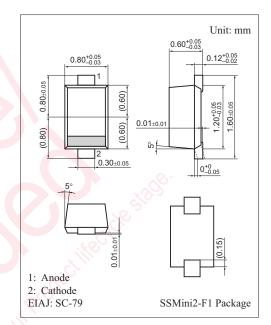
■ Absolute Maximum Ratings $T_a = 25$ °C

| Parameter | Symbol | Rating | Unit | |
|----------------------------|------------------|-------------|------|--|
| Total power dissipation *1 | P_{T} | 150 | mW | |
| Junction temperature | T _j | 150 | °C | |
| Storage temperature | T _{stg} | -55 to +150 | °C | |
| Electrostatic discharge *2 | ESD | ±30 | kV | |

Note) $*1: P_T = 150 \text{ mW}$ achieved with a printed circuit board.

*2: Test method: IEC61000-4-2

 $(C = 150 \text{ pF}, R = 330 \Omega, \text{Contact discharge: } 10 \text{ times})$



Marking Symbol: DE

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

| Parameter | Symbol | Conditions | Min | Тур | Max | Unit |
|----------------------|-----------------|---|--------|------|-----|------|
| Breakdown voltage * | V _{BR} | $I_Z = 1 \text{ mA}$ | 5.8 | 6.2 | 6.6 | V |
| Reverse current | I_R | $V_R = 4.0 V$ | SC 25 | 5 0 | 1.0 | μΑ |
| Terminal capacitance | C_{t} | $V_R = 0 \text{ V, } f = 1 \text{ MHz}$ | 1,1/10 | - 55 | | pF |

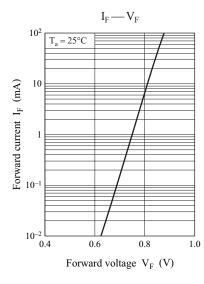
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

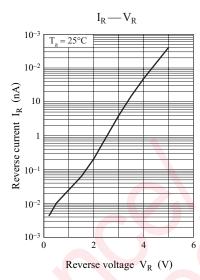
2. The temperature must be controlled 25°C for V_{BR} mesurement.

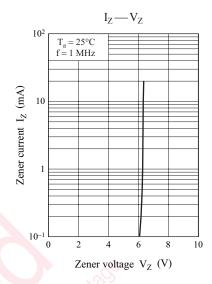
 V_{BR} value measured at other temperature must be adjusted to V_{BR} (25°C)

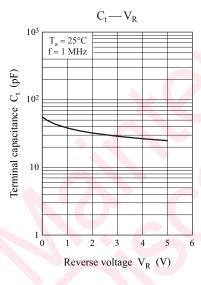
3. *: V_{BR} guaranted 20 ms after current flow.

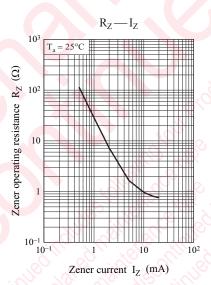
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