Panasonic

DZ2J180

Silicon epitaxial planar type

For constant voltage / waveform clipper and surge absorption circuit Low noise type

Features

- \bullet Excellent rising characteristics of zener current $I_{\boldsymbol{z}}$
- Eco-friendly Halogen-free package

Packaging

Embossed type (Thermo-compression sealing): 3000 pcs / reel (standard)

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

| Parameter | Symbol | Rating | Unit |
|---------------------------------|------------------|-------------|------|
| Repetitive peak forward current | I _{FRM} | 200 | mA |
| Total power dissipation * | P _T | 200 | mW |
| Junction temperature | Tj | 150 | °C |
| Storage temperature | T _{stg} | -55 to +150 | °C |

Note) *: $P_T = 200 \text{ mW}$ achieved with a printed circuit board.

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

| Parameter | Symbol | Conditions | Min | Тур | Max | Unit |
|---|-----------------|---------------------------|-------|------|-------|-------|
| Forward voltage | V _F | $I_F = 10 \text{ mA}$ | | | 1.0 | V |
| Zener voltage *1, 2, 4 | VZ | $I_Z = 5 \text{ mA}$ | 17.10 | | 18.90 | V |
| Zener operating resistance | R _Z | $I_Z = 5 \text{ mA}$ | | | 60 | Ω |
| Zener rise operating resistance | R _{ZK} | $I_{Z} = 0.5 \text{ mA}$ | | | 80 | Ω |
| Reverse current | I _R | $V_{\rm R} = 13 {\rm V}$ | | | 0.05 | μΑ |
| Temperature coefficient of zener voltage *3 | Sz | $I_Z = 5 \text{ mA}$ | | 17.2 | | mV/°C |

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. *1: 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°C) *2: V_Z guaranteed 20 ms after current flow.

*3: $T_j = 25^{\circ}C$ to $150^{\circ}C$

*4: Rank classification

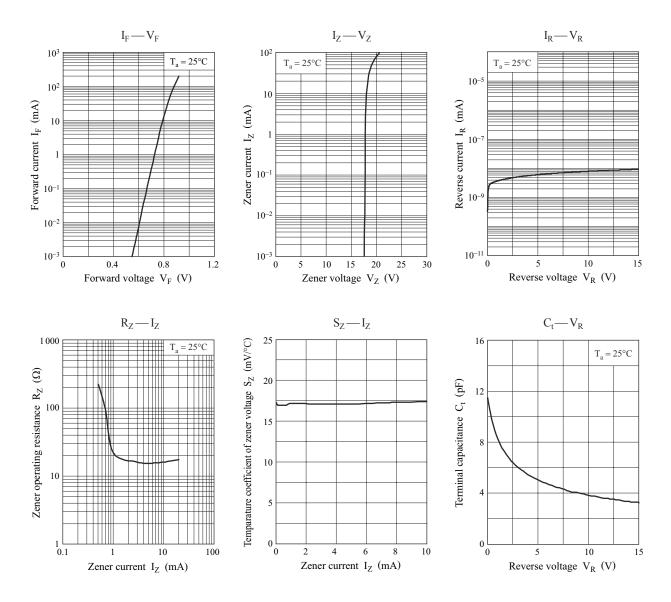
| Code | М | 0 |
|----------------|----------------|----------------|
| Rank | М | No-rank |
| VZ | 17.55 to 18.45 | 17.10 to 18.90 |
| Marking Symbol | YU | YJ |

Package

- Code
- SMini2-F5-B
- Pin Name
 - 1. Cathode
 - 2. Anode
- Marking Symbol: YJ, YU

DZ2J180

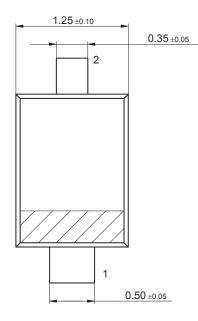
Panasonic



SMini2-F5-B

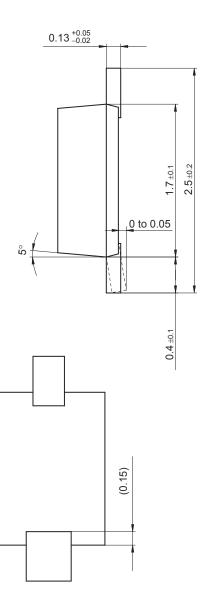
5

Unit: mm



 0.7 ± 0.1

1



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