DB3X313F

Silicon epitaxial planar type

For small current rectification

■ Features

- Low forward voltage V_F and small reverse current I_R
- Low terminal capacitance C_t
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

■ Marking Symbol: 4Q

■ Basic Part Number

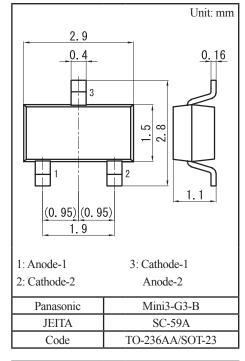
Dual DB2J313 (Series)

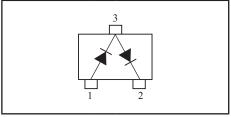
Packaging

DB3X313F0L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

■ Absolute Maximum Ratings $T_a = 25$ °C

| Parameter | Symbol | Symbol Rating | | | |
|--|--------|--------------------|-------------|----|--|
| Reverse voltage | | V _R | 30 | V | |
| Repetitive peak reverse voltage | | V _{RRM} | 30 | V | |
| Forward current (Average) | Single | T | 200 | mA | |
| | Series | $I_{F(AV)}$ | 130 | | |
| Peak forward current | Single | T | 300 | mA | |
| | Series | I_{FM} | 220 | | |
| Non-repetitive peak reverse surge voltage *1 | Single | т | 1.0 | A | |
| | Series | I_{FSM} | 0.7 | | |
| Junction temperature | | T _j 125 | | °C | |
| Operating ambient temperature | | T _{opr} | -40 to +85 | °C | |
| Storage temperature | | T _{stg} | -55 to +125 | °C | |



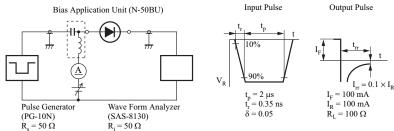


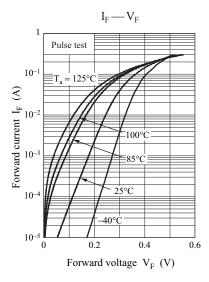
Note) *1: 50 Hz sine wave 1 cycle (Non-repetitive peak current)

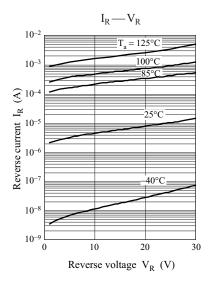
■ Electrical Characteristics $T_a = 25$ °C±3°C

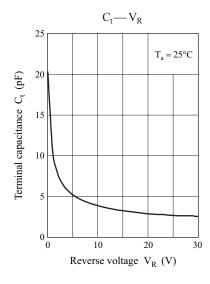
| Parameter | Symbol | Conditions | Min | Тур | Max | Unit |
|--------------------------|-----------------|---|-----|-----|------|------|
| Forward voltage | V _F | $I_F = 200 \text{ mA}$ | | | 0.55 | V |
| Reverse current | I_R | $V_R = 30 \text{ V}$ | | | 50 | μΑ |
| Terminal capacitance | C _t | $V_R = 10 \text{ V}, f = 1 \text{ MHz}$ | | 3.8 | | pF |
| Reverse recovery time *1 | t _{rr} | $I_F = I_R = 100 \text{ mA}, I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$ | | 1.5 | | ns |

- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
 - 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
 - 3. Absolute frequency of input and output is 1 $\ensuremath{\text{GHz}}$
 - *1: t_{rr} measurement circuit





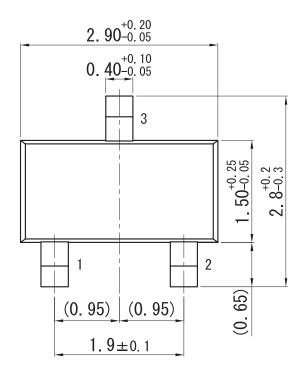


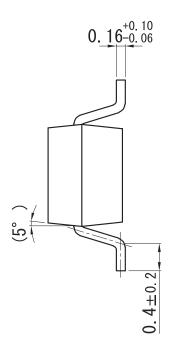


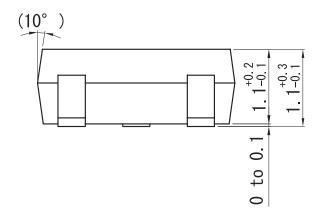
Ver. CED 2

Mini3-G3-B

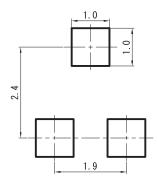
Unit: mm







■ Land Pattern (Reference) (Unit: mm)



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