DB3X316K

Silicon epitaxial planar type

For small current rectification

■ Features

- ullet Short reverse recovery time t_{rr}
- Low forward voltage V_F
- Halogen-free / RoHS compliant
 (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

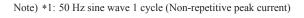
■ Marking Symbol: 5E

■ Packaging

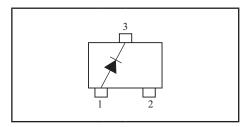
DB3X316K0L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

■ Absolute Maximum Ratings $T_a = 25$ °C

| Parameter | Symbol | Rating | Unit | |
|--|--------------------|-------------|------|--|
| Reverse voltage | V _R | 30 | V | |
| Repetitive peak reverse voltage | V _{RRM} | 30 | V | |
| Forward current (Average) | I _{F(AV)} | 100 | mA | |
| Peak forward current | I_{FM} | 300 | mA | |
| Non-repetitive peak forward surge current *1 | I _{FSM} | 1 | A | |
| Junction temperature | T _j | 125 | °C | |
| Operating ambient temperature | T _{opr} | -40 to +85 | °C | |
| Storage temperature | T _{stg} | -55 to +125 | °C | |



Unit: mm 2. 9 0. 4 0. 16 (0. 95) (0. 95) 1. 9 1: Anode 2: N.C. 3: Cathode Panasonic Mini3-G3-B JEITA SC-59A Code TO-236AA/SOT-23

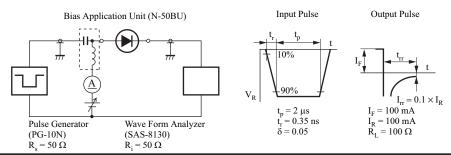


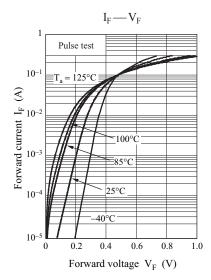
■ Electrical Characteristics $T_a = 25$ °C±3°C

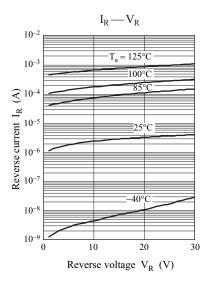
| Parameter | Symbol | Conditions | Min | Тур | Max | Unit |
|--------------------------|------------------|---|-----|-----|------|------|
| Forward voltage | V_{F} | $I_F = 100 \text{ mA}$ | | | 0.55 | V |
| Reverse current | I_R | $V_R = 30 \text{ V}$ | | | 15 | μΑ |
| Terminal capacitance | C _t | $V_R = 10 \text{ V}, f = 1 \text{ MHz}$ | | 2 | | pF |
| Reverse recovery time *1 | t _{rr} | $I_F = I_R = 100 \text{ mA}, I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$ | | 0.8 | | ns |

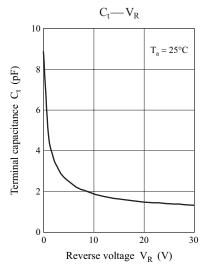
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

- 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 250 \mbox{MHz}
 - *1: t_{rr} measurement circuit





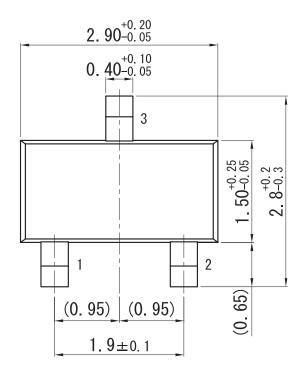


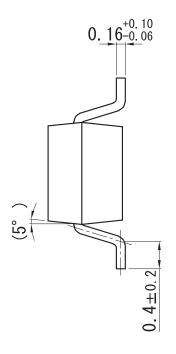


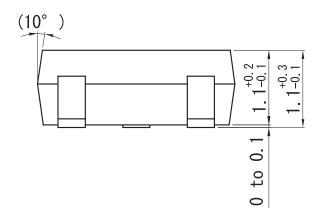
Ver. DED 2

Mini3-G3-B

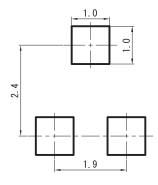
Unit: mm







■ Land Pattern (Reference) (Unit: mm)



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