DB2U314

Silicon epitaxial planar type

For high speed switching circuits DB27314 in USSMini2 type package

■ Features

- ullet Small reverse current I_R
- Short reverse recovery time t_{rr}
- Halogen-free / RoHS compliant
 (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

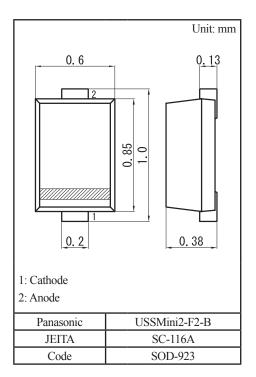
■ Marking Symbol: 13

■ Packaging

DB2U31400L Embossed type (Thermo-compression sealing): 10000 pcs / reel (standard)

■ Absolute Maximum Ratings $T_a = 25$ °C

| Parameter | Symbol | Rating | Unit | |
|-------------------------------|------------------|-------------|------|--|
| Reverse voltage | V _R | 30 | V | |
| Maximum peak reverse voltage | V_{RM} | 30 | V | |
| Forward current | I_{F} | 30 | mA | |
| Peak forward current | I_{FM} | 150 | mA | |
| Junction temperature | T _j | 125 | °C | |
| Operating ambient temperature | T _{opr} | -40 to +85 | °C | |
| Storage temperature | T _{stg} | -55 to +125 | °C | |

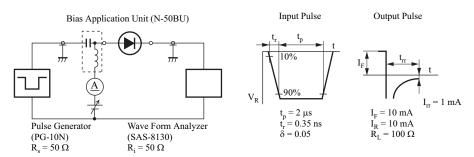


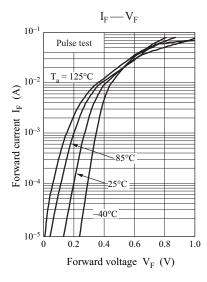
■ Electrical Characteristics $T_a = 25$ °C±3°C

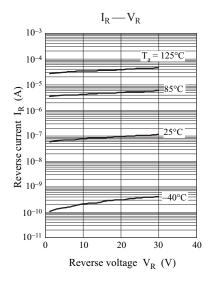
| Parameter | Symbol | Conditions | Min | Тур | Max | Unit |
|--------------------------|-----------------|--|-----|-----|-----|------|
| Forward voltage | V_{F1} | $I_F = 1 \text{ mA}$ | | | 0.4 | V |
| | V_{F2} | $I_F = 30 \text{ mA}$ | | | 1.0 | |
| Reverse current | I_R | $V_R = 30 \text{ V}$ | | | 300 | nA |
| Terminal capacitance | C _t | $V_R = 10 \text{ V}, f = 1 \text{ MHz}$ | | 1.5 | | pF |
| Reverse recovery time *1 | t _{rr} | $I_F = I_R = 10 \text{ mA}, I_{rr} = 1 \text{ mA}, R_L = 100 \Omega$ | | 1.0 | | ns |

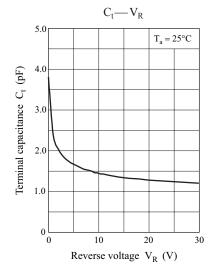
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

- 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 $2\ \mbox{GHz}$
 - *1: t_{rr} measurement circuit





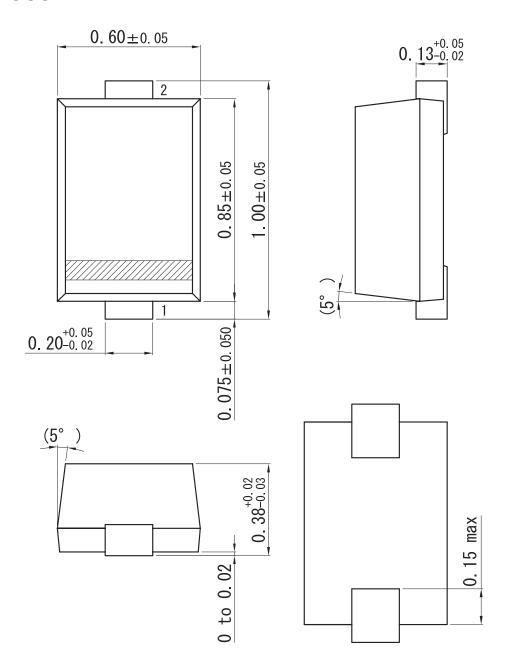




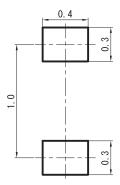
Ver. CED 2

USSMini2-F2-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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