

DB6J314K

Silicon epitaxial planar type

For high speed switching circuits
DB6X314K in SMini6 type package

■ Features

- Short reverse recovery time t_{rr}
- Small reverse current I_R
- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

■ Basic Part Number

Triple DB2J314 (Parallel)

■ Packaging

DB6J314K0R Embossed type (Thermo-compression sealing): 3000 pcs / reel (standard)

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

| 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 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | -55 to +125 | $^\circ\text{C}$ |

Note) *: Value for single diode

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

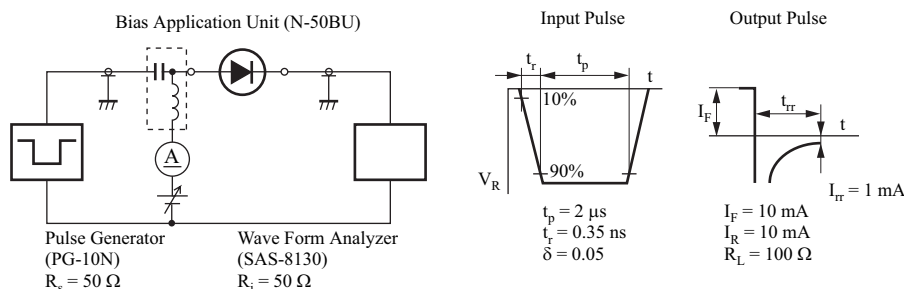
| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|-------------------------|----------|--|-----|-----|-----|------|
| Forward voltage | V_{F1} | $I_F = 1 \text{ mA}$ | | | 0.4 | V |
| | V_{F2} | $I_F = 30 \text{ mA}$ | | | 1.0 | |
| Reverse current | I_R | $V_R = 30 \text{ V}$ | | | 300 | nA |
| Terminal capacitance | C_t | $V_R = 10 \text{ V}, f = 1 \text{ MHz}$ | | 1.5 | | pF |
| Reverse recovery time * | 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 GHz

*: t_{rr} measurement circuit



■ Package

• Code

SMini6-F3-B

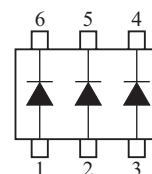
Package dimension clicks here.→

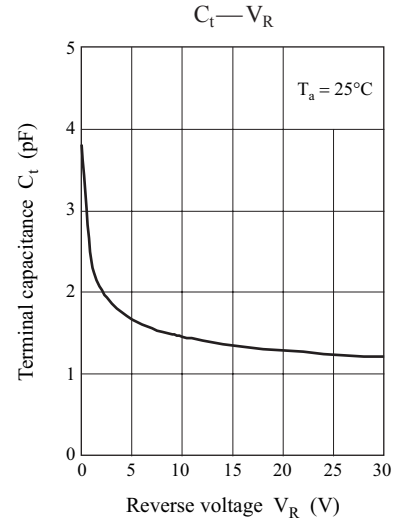
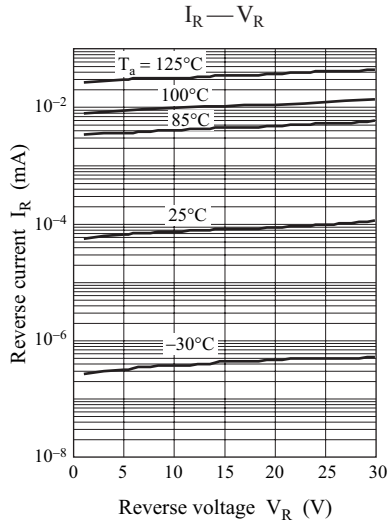
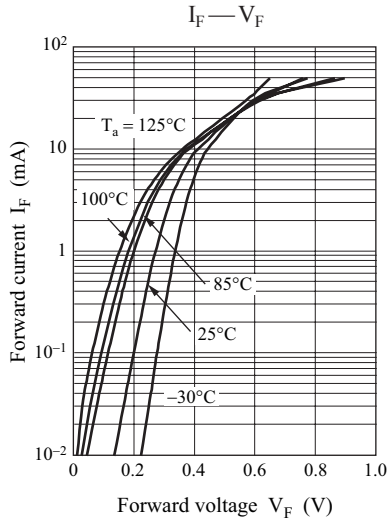
• Pin Name

- | | |
|-------------|--------------|
| 1: Anode-1 | 4: Cathode-3 |
| 2: Anode-2. | 5: Cathode-2 |
| 3: Anode-3 | 6: Cathode-1 |

■ Marking Symbol: 4X

■ Internal Connection





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