# DB3J316F

## Silicon epitaxial planar type

For small current rectification DB3X316F in SMini3 type package

#### Features

- Short reverse recovery time t<sub>rr</sub>
- $\bullet$  Low forward voltage  $V_{\rm F}$
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)
- Marking Symbol: 5K

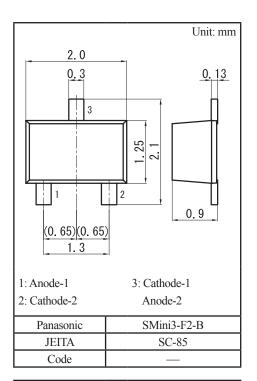
#### Basic Part Number

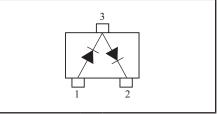
Dual DB2S316 (Series)

#### Packaging

DB3J316F0L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

#### Absolute Maximum Ratings $T_a = 25^{\circ}C$ Parameter Symbol Rating Unit Reverse voltage $V_R$ 30 V Repetitive peak reverse voltage V V<sub>RRM</sub> 30 100 Single Forward current (Average) mA I<sub>F(AV)</sub> Series 70 Single 300 Peak forward current mA I<sub>FM</sub> Series 200 Non-repetitive peak forward surge current \*1 1 А I<sub>FSM</sub> 125 °C Junction temperature Ti Operating ambient temperature Topr -40 to +85 °C Storage temperature -55 to +125 °C T<sub>stg</sub>





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

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

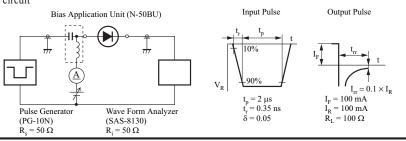
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V <sub>F</sub>	$I_F = 100 \text{ mA}$			0.55	V
Reverse current	I <sub>R</sub>	$V_R = 30 V$			15	μΑ
Terminal capacitance	Ct	$V_{R} = 10 V, f = 1 MHz$		2		pF
Reverse recovery time *1	t <sub>rr</sub>	$I_{F}\!=\!I_{R}\!=\!\!100$ mA, $I_{rr}\!=\!0.1\times I_{R}$ , $R_{L}\!=\!100$ $\Omega$		0.8		ns

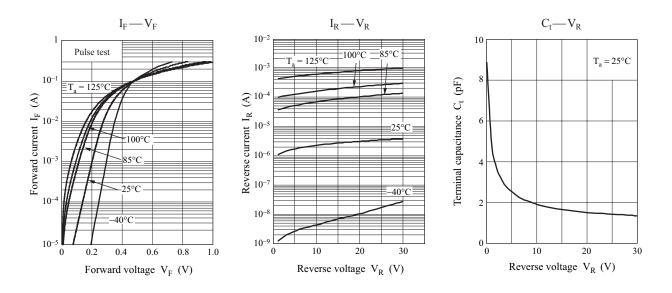
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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 MHz

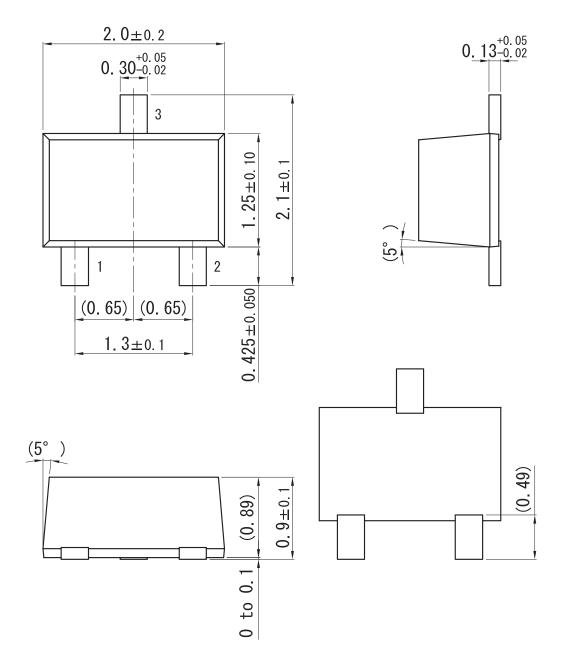
\*1: trr measurement circuit



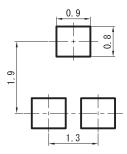


Unit: mm

SMini3-F2-B



Land Pattern (Reference) (Unit: mm)



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