# DB2U314

Silicon epitaxial planar type

For high speed switching circuits DB27314 in USSMini2 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

#### Packaging

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

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

Parameter	Symbol	Rating	Unit	
Reverse voltage	V <sub>R</sub>	30	V	
Maximum peak reverse voltage	V <sub>RM</sub>	30	V	
Forward current	I <sub>F</sub>	30	mA	
Peak forward current	I <sub>FM</sub>	150	mA	
Junction temperature	Tj	125	°C	
Storage temperature	T <sub>stg</sub>	-55 to +125	°C	

#### Package

- Code
- USSMini2-F2-B
- Pin Name
- 1: Cathode
- 2: Anode
- Marking Symbol: 13

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

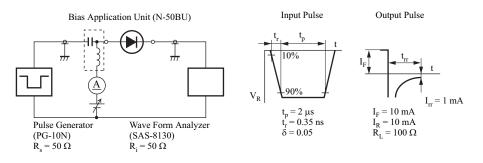
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V <sub>F1</sub>	$I_F = 1 \text{ mA}$			0.4	v
	V <sub>F2</sub>	$I_F = 30 \text{ mA}$			1.0	
Reverse current	I <sub>R</sub>	$V_R = 30 V$			300	nA
Terminal capacitance	Ct	$V_{R} = 10 V, f = 1 MHz$		1.5		pF
Reverse recovery time *	t <sub>rr</sub>	$I_{\rm F} = I_{\rm R} = 10 \text{ mA}, I_{\rm rr} = 1 \text{ mA}, R_{\rm L} = 100 \Omega$		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.

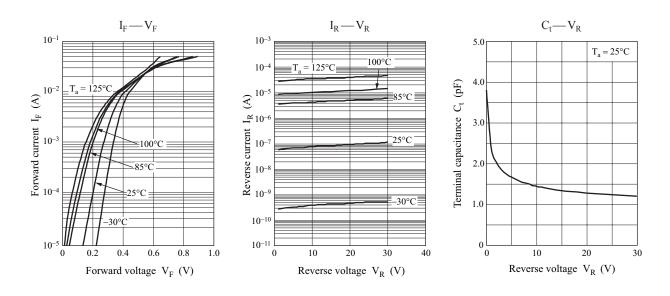
3. Absolute frequency of input and output is  $2\ \mathrm{GHz}$ 

\*: trr measurement circuit



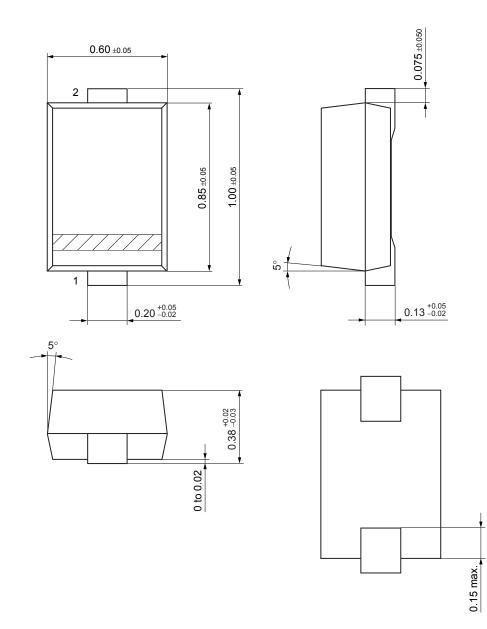
#### DB2U314

### **Panasonic**



USSMini2-F2-B

Unit: mm



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