# **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<sub>rr</sub>
- Halogen-free / RoHS compliant
   (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

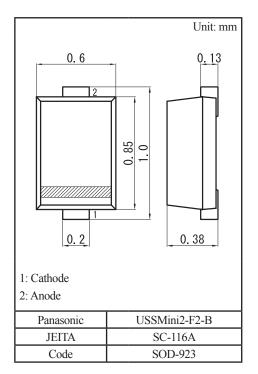
#### ■ Marking Symbol: 13

#### ■ 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 <sub>R</sub>	30	V	
Maximum peak reverse voltage	$V_{RM}$	30	V	
Forward current	$I_{\mathrm{F}}$	30	mA	
Peak forward current	$I_{FM}$	150	mA	
Junction temperature	T <sub>j</sub>	125	°C	
Operating ambient temperature	T <sub>opr</sub>	-40 to +85	°C	
Storage temperature	T <sub>stg</sub>	-55 to +125	°C	

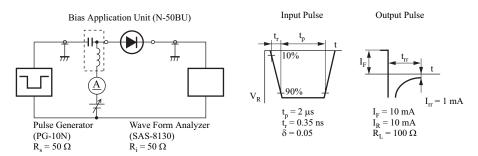


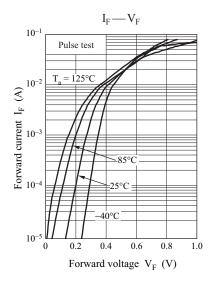
#### ■ Electrical Characteristics $T_a = 25$ °C±3°C

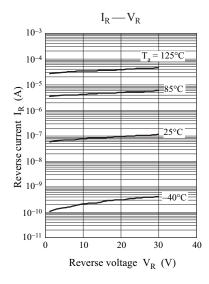
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{F1}$	$I_F = 1 \text{ mA}$			0.4	V
	$V_{F2}$	$I_F = 30 \text{ mA}$			1.0	
Reverse current	$I_R$	$V_R = 30 \text{ V}$			300	nA
Terminal capacitance	C <sub>t</sub>	$V_R = 10 \text{ V, } f = 1 \text{ MHz}$		1.5		pF
Reverse recovery time *1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

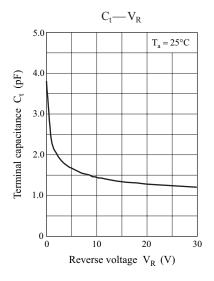
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

- 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<sub>rr</sub> measurement circuit





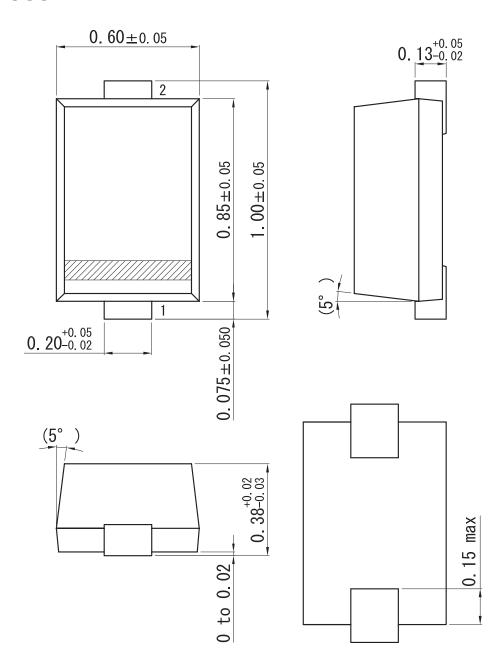




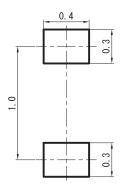
Ver. CED 2

# USSMini2-F2-B

Unit: mm



#### ■ Land Pattern (Reference) (Unit: mm)



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