## **DB3S308F**

### Silicon epitaxial planar type

For high speed switching circuits

#### ■ Features

- Short reverse recovery time t<sub>rr</sub>
- Low forward voltage V<sub>F</sub>
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

#### ■ Marking Symbol: 4T

#### ■ Basic Part Number

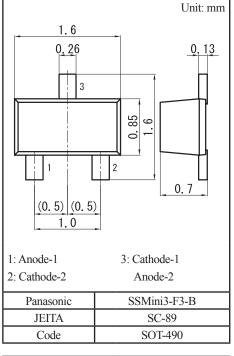
Dual DB2S308 (Series)

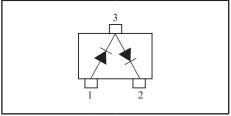
#### Packaging

DB3S308F0L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

#### ■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter		Symbol	Symbol Rating		
Reverse voltage		$V_R$	30	V	
Repetitive peak reverse voltage		V <sub>RRM</sub>	30	V	
Forward current (Average)	Single	T	100	mA	
	Series	$I_{F(AV)}$	75		
Peak forward current	Single	T	200	mA	
	Series	$I_{FM}$	150		
Non-repetitive peak forward surge current *1		I <sub>FSM</sub>	1	A	
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	



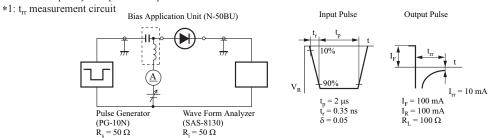


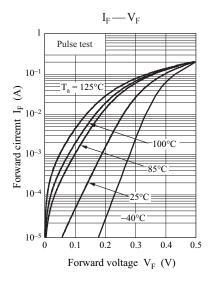
Note) \*1: 50 Hz sine wave 1 cycle (Non-repetitive peak current)

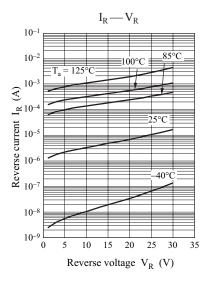
#### ■ Electrical Characteristics $T_a = 25$ °C±3°C

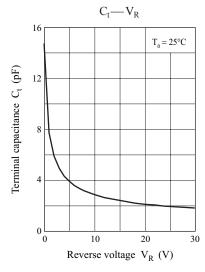
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V <sub>F1</sub>	$I_F = 10 \text{ mA}$			0.29	V
	$V_{F2}$	$I_F = 100 \text{ mA}$			0.42	
Reverse current	I <sub>R1</sub>	$V_R = 10 V$			25	μА
	I <sub>R2</sub>	$V_R = 30 \text{ V}$			120	
Terminal capacitance	C <sub>t</sub>	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$		2.9		pF
Reverse recovery time *1	t <sub>rr</sub>	$I_F = I_R = 100 \text{ mA}, I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$		1.3		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





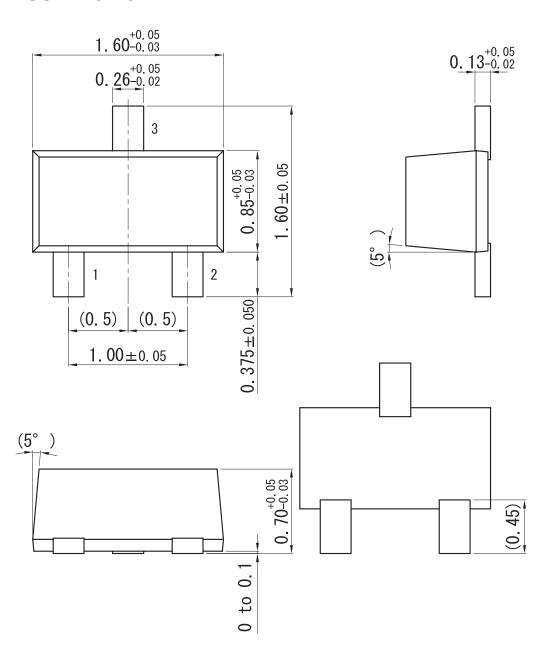




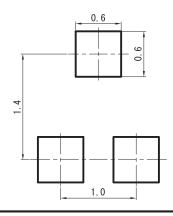
Ver. CED 2

# SSMini3-F3-B

Unit: mm



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



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