Unit: mm

0.13

## **DB27308**

### Silicon epitaxial planar type

For high speed switching circuits DB2S308 in SSSMini2 type package

#### ■ 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)

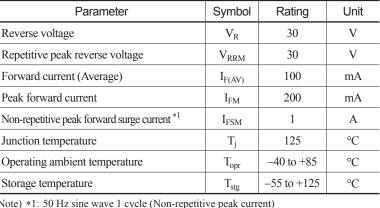
#### ■ Marking Symbol: C2

#### Packaging

DB2730800L 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	
Repetitive peak reverse voltage	V <sub>RRM</sub>	30	V	
Forward current (Average)	I <sub>F(AV)</sub>	100	mA	
Peak forward current	$I_{FM}$	200	mA	
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	



2 0.27 0.52 1: Cathode 2: Anode Panasonic SSSMini2-F4-B **JEITA** SC-104A SOD-723 Code

0.6

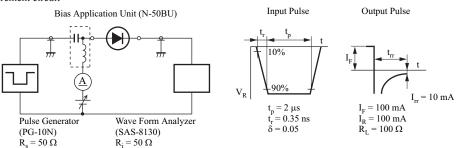
Note) \*1: 50 Hz sine wave 1 cycle (Non-repetitive peak current)

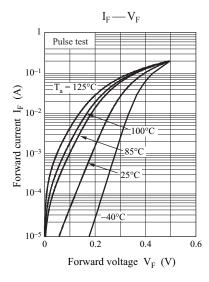
#### ■ Electrical Characteristics $T_a = 25$ °C±3°C

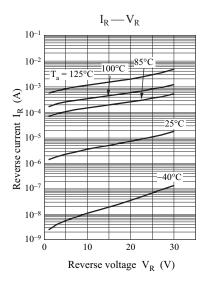
ü							
Parameter	Symbol	Conditions	Min	Тур	Max	Unit	
Forward voltage	V <sub>F1</sub>	$I_F = 10 \text{ mA}$			0.29	V	
	$V_{F2}$	$I_F = 100 \text{ mA}$			0.42		
Reverse current —	$I_{R1}$	$V_R = 10 \text{ V}$			25	μΑ	
	$I_{R2}$	$V_R = 30 \text{ V}$			120		
Terminal capacitance	C <sub>t</sub>	$V_R = 10 \text{ V, } f = 1 \text{ MHz}$		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	

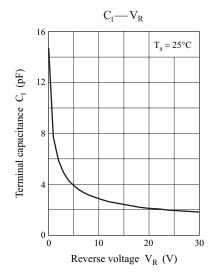
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

- 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  $\mbox{MHz}$ 
  - \*1: t<sub>rr</sub> measurement circuit





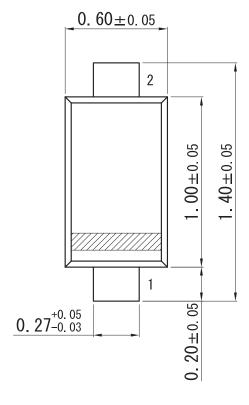


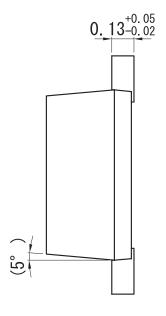


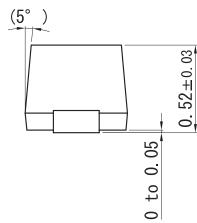
Ver. DED 2

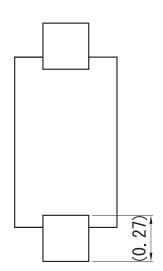
## SSSMini2-F4-B

Unit: mm

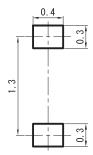








#### ■ Land Pattern (Reference) (Unit: mm)



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