### **DB2S316**

### Silicon epitaxial planar type

For small current rectification DB2J316 in SSMini2 type package

#### ■ Features

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

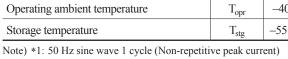
#### ■ Marking Symbol:C7

#### ■ Packaging

DB2S31600L Embossed type (Thermo-compression sealing): 3 000 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	$I_{FM}$	300	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	



## Unit: mm 0.8 0.13 0.3 0.6 1: Cathode 2: Anode Panasonic SSMini2-F5-B **JEITA** SC-79

Code

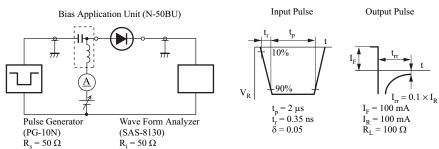
SOD-523

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

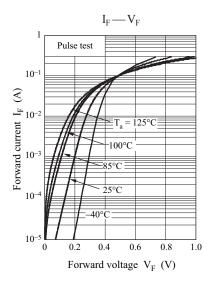
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V <sub>F</sub>	$I_F = 100 \text{ mA}$			0.55	V
Reverse current	$I_R$	$V_R = 30 \text{ V}$			15	μΑ
Terminal capacitance	C <sub>t</sub>	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$		2		pF
Reverse recovery time *1	t <sub>rr</sub>	$I_F = I_R = 100 \text{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

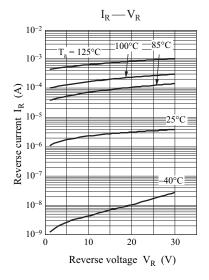
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

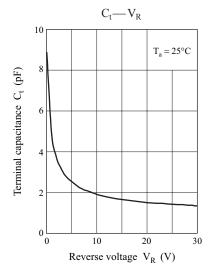
- 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
- 3. Absolute frequency of input and output is 250  $\ensuremath{\text{MHz}}$ 
  - \*1: t<sub>rr</sub> measurement circuit



DB2S316 Panasonic

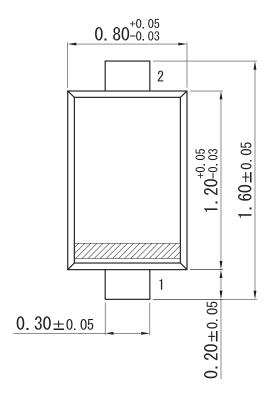


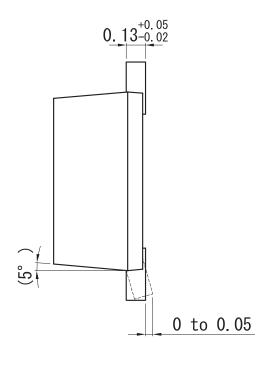


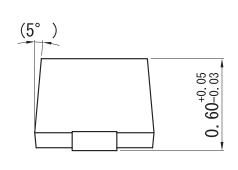


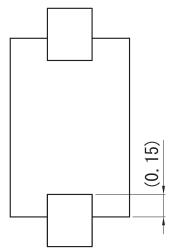
### SSMini2-F5-B

Unit: mm

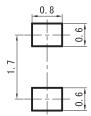








### ■ Land Pattern (Reference) (Unit: mm)



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