DB2S316

Silicon epitaxial planar type

For small current rectification DB2J316 in SSMini2 type package

Features

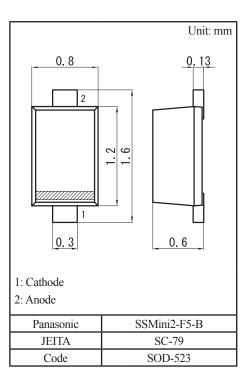
- \bullet Low forward voltage $V_{\rm F}$
- Short reverse recovery time t_{rr}
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)
- Marking Symbol:C7

Packaging

DB2S31600L Embossed type (Thermo-compression sealing): 3000 pcs / reel (standard)

Absolute Maximum Ratings 1 _a = 25 C								
Parameter	Symbol	Rating	Unit					
Reverse voltage	V _R	30	V					
Repetitive peak reverse voltage	V _{RRM}	30	V					
Forward current (Average)	I _{F(AV)}	100	mA					
Peak forward current	I _{FM}	300	mA					
Non-repetitive peak forward surge current *1	I _{FSM}	1	А					
Junction temperature	Tj	125	°C					
Operating ambient temperature	T _{opr}	-40 to +85	°C					
Storage temperature	T _{stg}	-55 to +125	°C					





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

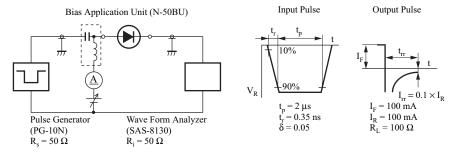
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

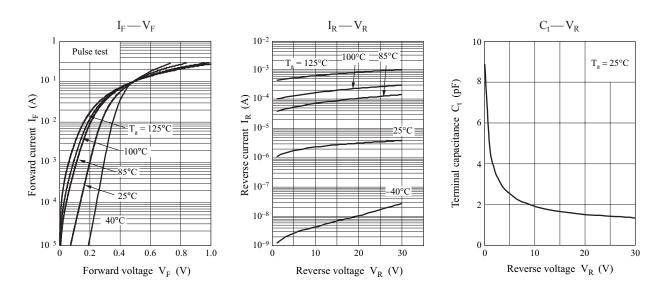
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_F = 100 \text{ mA}$			0.55	V
Reverse current	I _R	$V_R = 30 V$			15	μΑ
Terminal capacitance	Ct	$V_{R} = 10 V, f = 1 MHz$		2		pF
Reverse recovery time *1	t _{rr}	$\begin{split} I_F \! = \! I_R \! = \! 100 \; mA, I_{rr} \! = \! 0.1 \times I_R \; , \\ R_L \! = \! 100 \; \Omega \end{split}$		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.

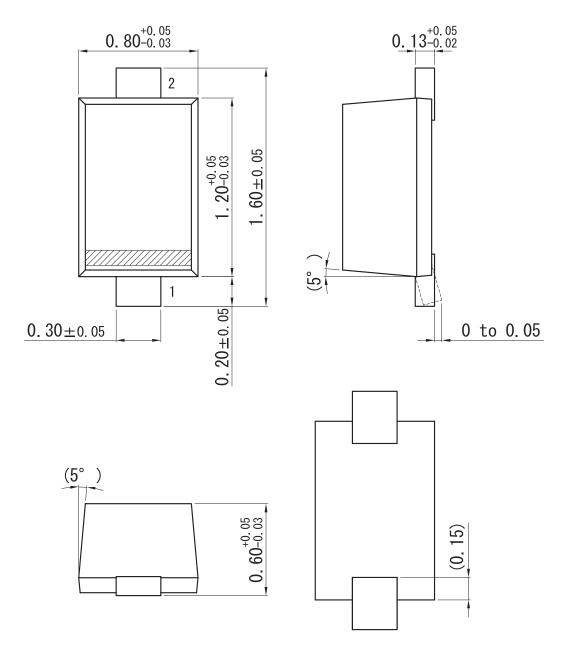
- 3. Absolute frequency of input and output is 250 $\ensuremath{\text{MHz}}$
 - *1: t_{rr} measurement circuit



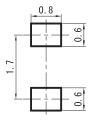


SSMini2-F5-B

Unit: mm



Land Pattern (Reference) (Unit: mm)



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