DB2S308

Silicon epitaxial planar type

For high speed switching circuits

Features

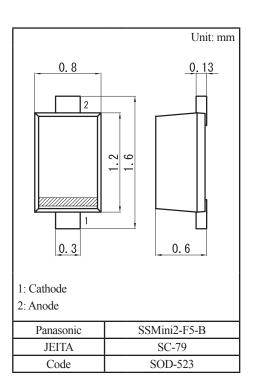
- \bullet Low forward voltage V_{F}
- Short reverse recovery time t_{rr}
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)
- Marking Symbol: C2

Packaging

DB2S30800L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

Absolute Maximum Ratings $T_a = 25^{\circ}C$

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

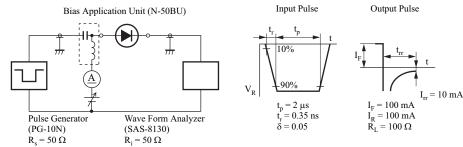
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _{F1}	$I_F = 10 \text{ mA}$			0.29	V
	V _{F2}	$I_F = 100 \text{ mA}$			0.42	
Reverse current	I _{R1}	$V_{\rm R} = 10 {\rm V}$			25	μA
	I _{R2}	$V_R = 30 V$			120	
Terminal capacitance	Ct	$V_{R} = 10 V, f = 1 MHz$		2.9		pF
Reverse recovery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

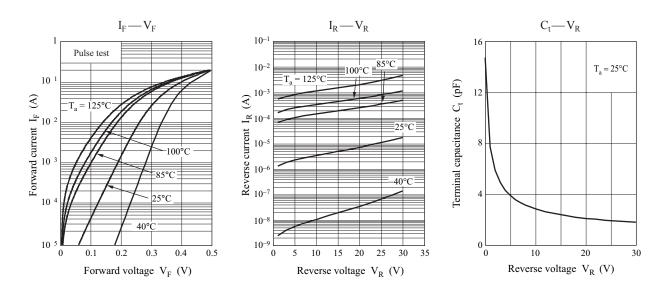
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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

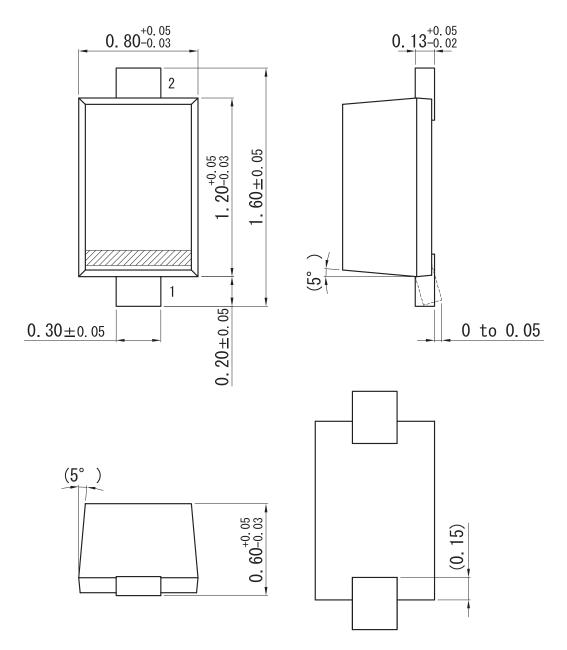
*1: trr measurement circuit



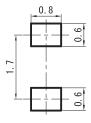


SSMini2-F5-B

Unit: mm



Land Pattern (Reference) (Unit: mm)



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