DB27308

Silicon epitaxial planar type

For high speed switching circuits DB2S308 in SSSMini2 type package

Features

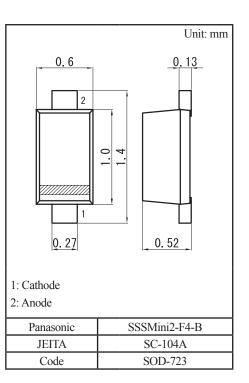
- Short reverse recovery time t_{rr}
- \bullet Low forward voltage $V_{\rm F}$
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)
- Marking Symbol: C2

Packaging

DB2730800L Embossed type (Thermo-compression sealing): 10000 pcs / reel (standard)

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

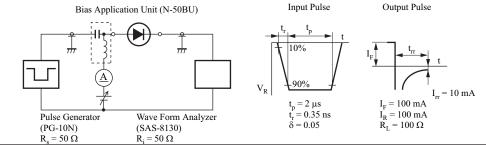
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _{F1}	$I_{\rm F} = 10 \ {\rm mA}$			0.29	V
	V _{F2}	$I_{\rm F} = 100 \mathrm{mA}$			0.42	
Reverse current —	I _{R1}	$V_R = 10 V$			25	μΑ
	I _{R2}	$V_R = 30 V$			120	
Terminal capacitance	Ct	$V_{\rm R} = 10 \text{ V}, \text{ f} = 1 \text{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

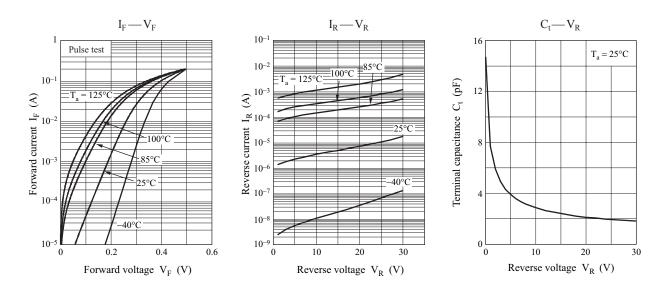
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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.

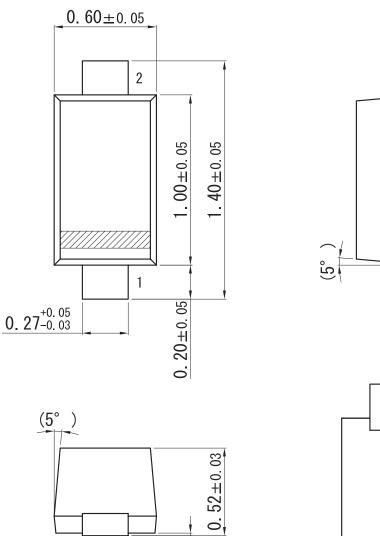
3. Absolute frequency of input and output is 250 $\ensuremath{\text{MHz}}$

*1: trr measurement circuit

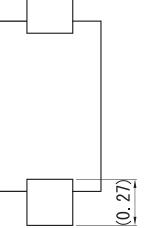




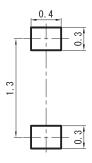




0 to 0.05



Land Pattern (Reference) (Unit: mm)



Unit: mm

0.13^{+0.05}

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