DB2J208

Silicon epitaxial planar type

For high speed switching circuits

■ Features

- ullet Low forward voltage V_F
- Halogen-free / RoHS compliant
 (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

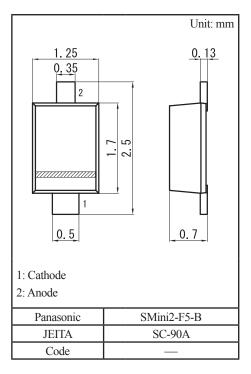
■ Marking Symbol: B8

Packaging

DB2J20800L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

■ Absolute Maximum Ratings $T_a = 25$ °C

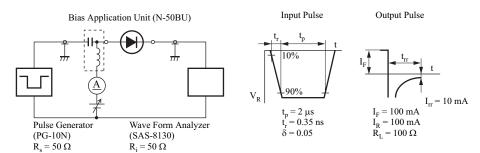
Parameter	Symbol	Rating	Unit
Reverse voltage	V _R	20	V
Repetitive peak reverse voltage	V _{RRM}	25	V
Forward current (Average) *1	I _{F(AV)}	500	mA
Non-repetitive peak forward surge current *2	I _{FSM}	2	A
Junction temperature	T _j	125	°C
Operating ambient temperature	T _{opr}	-40 to +85	°C
Storage temperature	T _{stg}	-55 to +125	°C



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

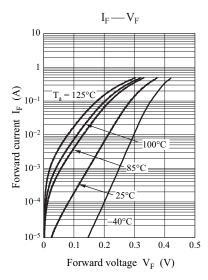
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_F = 500 \text{ mA}$			0.42	V
Reverse current	I_R	$V_R = 20 V$			200	μΑ
Terminal capacitance	C_{t}	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$		12		pF
Reverse recovery time *1	t _{rr}	$I_F = I_R = 100 \text{ mA}, I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$		4.3		ns

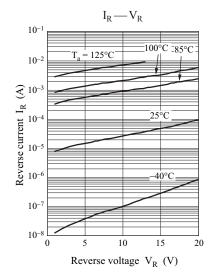
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
 - 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
 - 3. Absolute frequency of input and output is 250 \mbox{MHz}
 - *1: t_{rr} measurement circuit

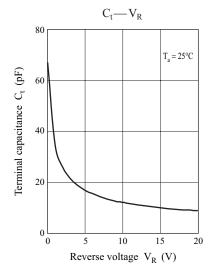


Note) *1: Mounted on an alumina PC board

^{*2: 50} Hz sine wave 1 cycle (Non-repetitive peak current)



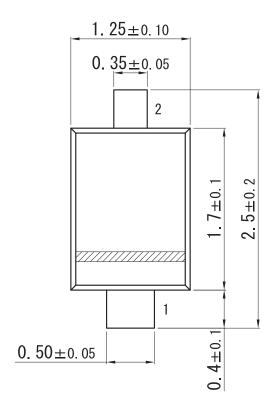


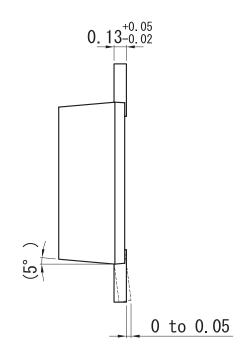


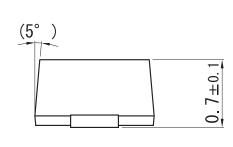
Ver. EED 2

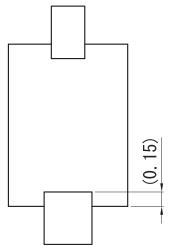
SMini2-F5-B

Unit: mm

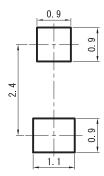








■ Land Pattern (Reference) (Unit: mm)



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