DB21413

Silicon epitaxial planar type

For rectification

■ Features

- Forward current (Average) $I_{F(AV)} = 2$ A rectification is possible
- \bullet Low forward voltage V_{F} and small reverse current I_{R}
- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

■ Packaging

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

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Reverse voltage	V _R	40	V	
Forward current (Average) *1	I _{F(AV)}	2	A	
Non-repetitive peak forward surge current *2	I_{FSM}	30	A	
Junction temperature	T_j	125	°C	
Storage temperature	T _{stg}	-55 to +125	°C	

Note) *1: Mounted on an alumina PC board (Board: 50 mm × 50 mm)

■ Package

• Code

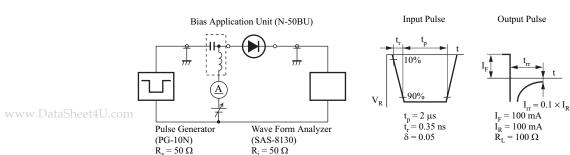
SMini2-F4-B

- Pin Name
 - 1: Cathode
 - 2: Anode
- Marking Symbol: 4N

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

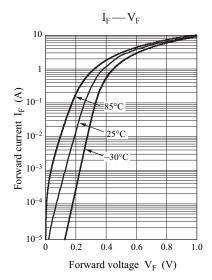
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V_{F1}	$I_{\rm F} = 2.0 {\rm A}$		0.46	0.53	V
Reverse current	I_R	$V_R = 40 \text{ V}$		25	150	μΑ
Terminal capacitance	C _t	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$		43		pF
Reverse recovery time *	t _{rr}	$\begin{split} I_F &= I_R = 100 \text{ mA}, \ I_{rr} = 0.1 \times I_R, \\ R_L &= 100 \ \Omega \end{split}$		12		ns

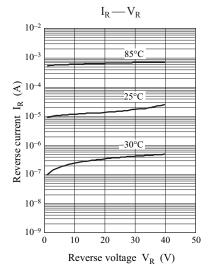
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
 - 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.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

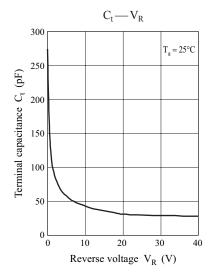


^{*2: 50} Hz sine wave 1 cycle (Non-repetitive peak current)

DB21413 Panasonic



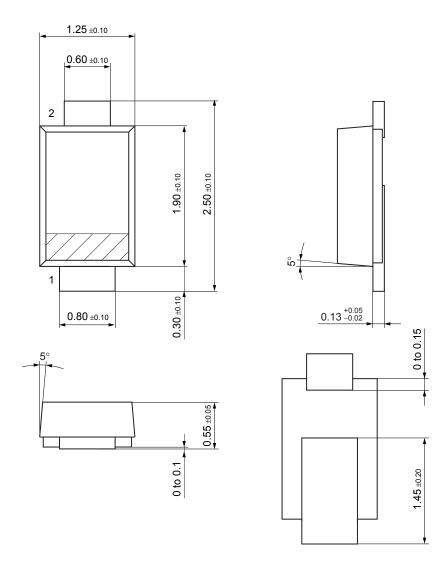




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SMini2-F4-B

Unit: mm



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