

DB21412

Silicon epitaxial planar type

For rectification

■ Features

- Low forward voltage V_F and small reverse current I_R
- Forward current (Average) $I_{F(AV)} = 1.5$ A rectification is possible
- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

■ Packaging

DB2141200L Embossed type (Thermo-compression sealing): 3000 pcs / reel (standard)

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

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	40	V
Forward current (Average) *1	$I_{F(AV)}$	1.5	A
Non-repetitive peak forward surge current *2	I_{FSM}	30	A
Junction temperature *1	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

Note) *1: $T_1 = 80^\circ\text{C}$

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

■ Package

- Code

SMini2-F4-B-B

Package dimension clicks here.→

- Pin Name

1: Cathode

2: Anode

■ Marking Symbol: 4S

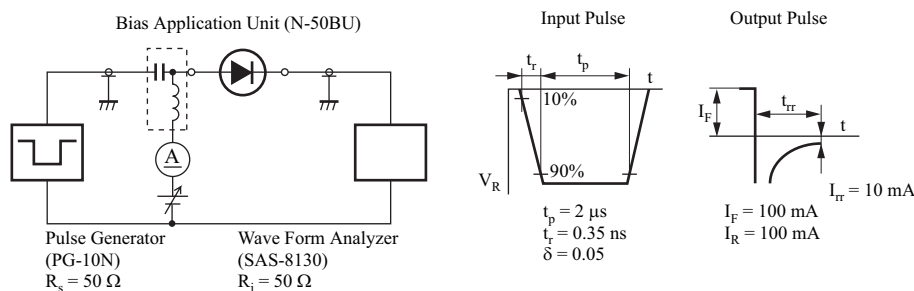
■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

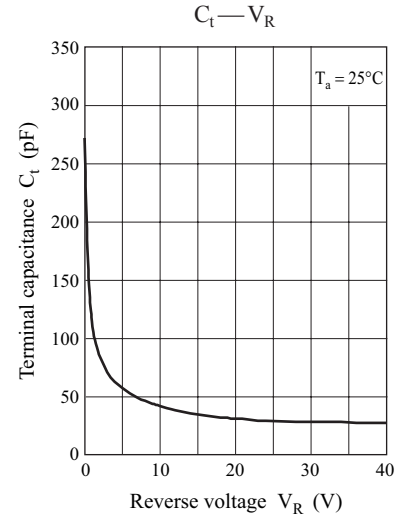
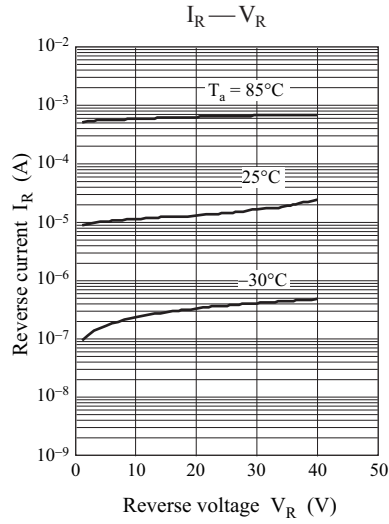
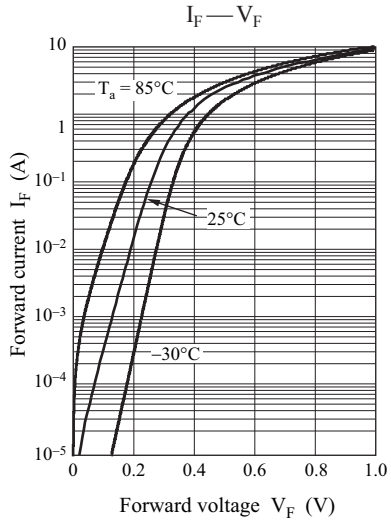
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage (DC)	V_F	$I_F = 1.5$ A		0.41	0.48	V
Reverse current	I_R	$V_R = 40$ V		25	150	μA
Terminal capacitance	C_t	$V_R = 10$ V, $f = 1$ MHz		43		pF
Reverse recovery time *	t_{rr}	$I_F = I_R = 100$ mA, $I_{rr} = 10$ mA		12		ns

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





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