DB21303

Silicon epitaxial planar type

For rectification

■ Features

- Small reverse current I_R
- Forward current (Average) $I_{F(AV)}$ = 1 A rectification is possible
- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

■ Packaging

DB2130300L Embossed type (Thermo-compression sealing): 3000 pcs / reel (standard)

■ Package

- Code

  SMini2-F4-B-B

  Package dimension clicks here.→ Click!

- Pin Name

  1: Cathode

  2: Anode

■ Marking Symbol: B4

■ Absolute Maximum Ratings T_a = 25°C

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Maximum peak reverse voltage	V_{RM}	30	V
Forward current (Average) *1	$I_{F(AV)}$	1.0	A
Non-repetitive peak forward surge current *2	I_{FSM}	20	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)

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

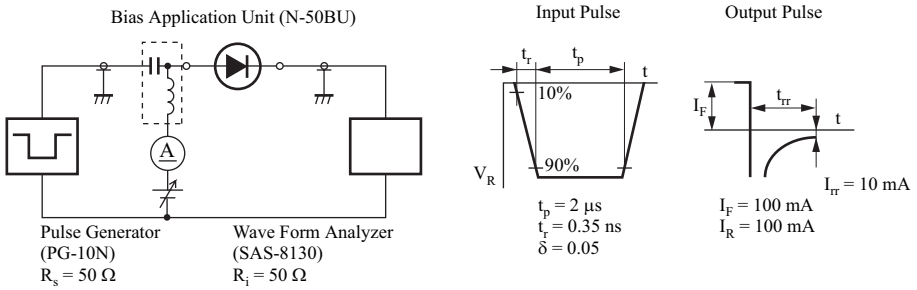
■ Electrical Characteristics T_a = 25°C±3°C

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage (DC)	V_{F1}	I_F = 0.7 A			0.47	V
	V_{F2}	I_F = 1.0 A			0.49	
Reverse current	I_R	V_R = 30 V			40	μA
Terminal capacitance	C_t	V_R = 10 V, f = 1 MHz		33		pF
Reverse recovery time *	t_{rr}	I_F = I_R = 100 mA, I_{rr} = 10 mA		11		ns

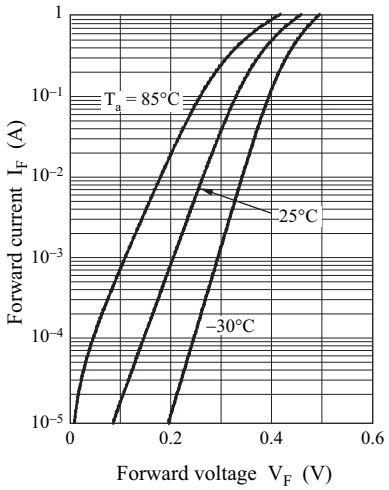
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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.

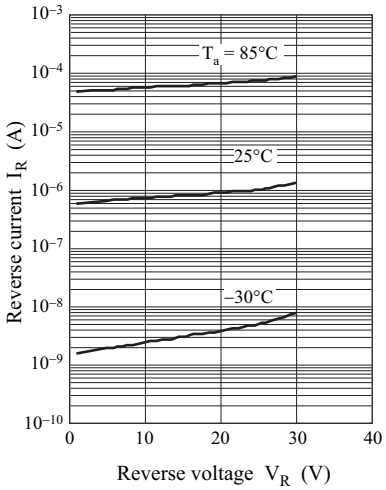
3. *: t_{rr} measurement circuit



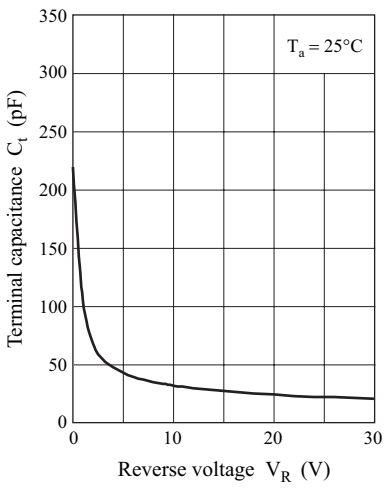
I_F — V_F



I_R — V_R



C_t — V_R



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