DB21320

Silicon epitaxial planar type

For rectification
DB22320 in SMini2 type package

■ Features

- 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

DB2132000L Embossed type (Thermo-compression sealing): 3000 pcs / reel (standard)

■ 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	$I_{F(AV)}$	1.5	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)

■ Package

- Code
  SMini2-F4-B-B
  Package dimension clicks here.→ Click!

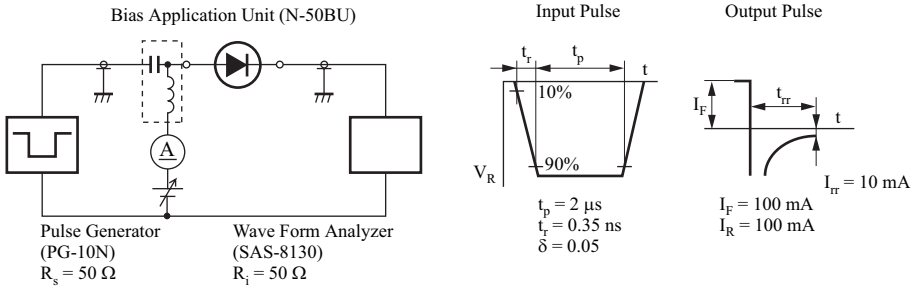
- Pin Name
  1: Cathode
  2: Anode

■ Marking Symbol: B5

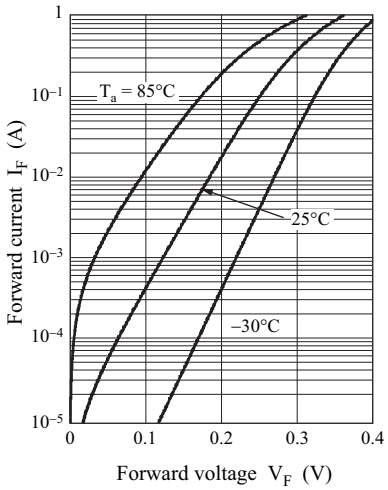
■ Electrical Characteristics $T_a = 25°C \pm 3°C$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage (DC)	V_{F1}	$I_F = 0.5$ A			0.38	V
	V_{F2}	$I_F = 1.0$ A			0.42	
	V_{F3}	$I_F = 1.5$ A			0.46	
Reverse current	I_R	$V_R = 30$ V			100	μA
Terminal capacitance	C_t	$V_R = 10$ V, f = 1 MHz		48		pF
Reverse recovery time *	t_{rr}	$I_F = I_R = 100$ mA, $I_{rr} = 10$ mA		16		ns

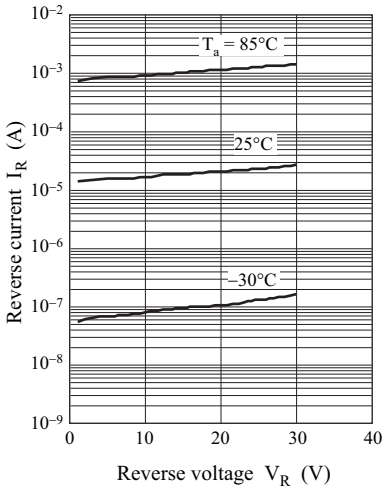
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
3.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



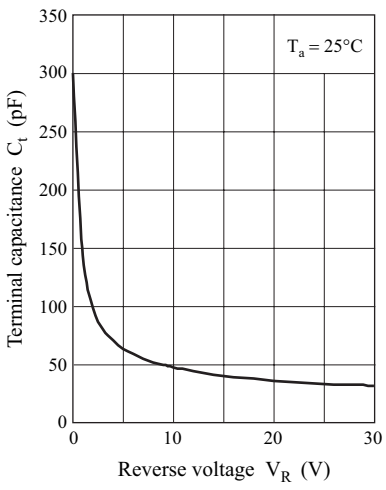
I_F — V_F



I_R — V_R



C_t — V_R



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