DB2J501

Silicon epitaxial planar type

For high speed switching circuits

■ Features

- Short reverse recovery time t_{rr}
- Low terminal capacitance C_t
- Halogen-free / RoHS compliant
 (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

■ Marking Symbol: BC

Packaging

DB2J50100L 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	50	V	
Repetitive peak reverse voltage	V _{RRM}	50	V	
Forward current (Average)	I _{F(AV)}	200	mA	
Peak forward current	I_{FM}	300	mA	
Non-repetitive peak forward surge current *	I_{FSM}	1	A	
Junction temperature	T_j	125	°C	
Storage temperature	T _{stg}	-55 to +125	°C	

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

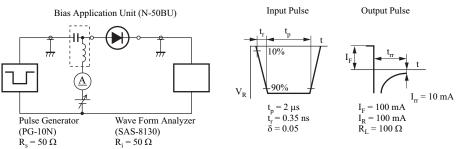
Unit: mm 1. 25 0. 35 2 2 1: Cathode 2: Anode Panasonic Panasonic SMini2-F5-B JEITA SC-90A Code —

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

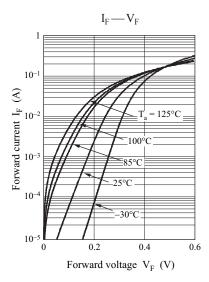
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V_{F1}	$I_F = 30 \text{ mA}$			0.36	V
	V_{F2}	$I_F = 200 \text{ mA}$			0.55	
Reverse current	I_R	$V_R = 50 \text{ V}$			200	μΑ
Terminal capacitance	C _t	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$		4		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 100 \text{ mA}, I_{rr} = 10 \text{ mA},$ $R_L = 100 \Omega$		1.6		ns

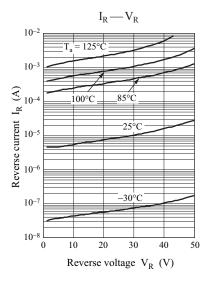
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

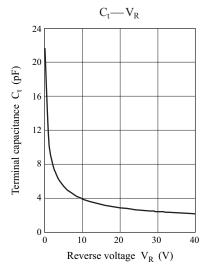
- 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
- 3. Absolute frequency of input and output is 1 $\,\mathrm{GHz}$
 - *: t_{rr} measurement circuit



DB2J501 Panasonic



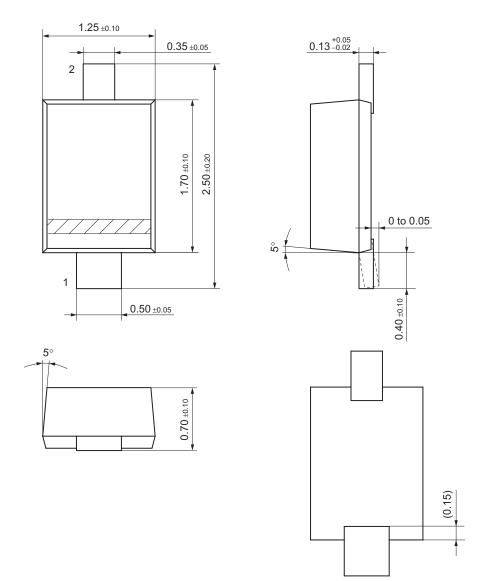




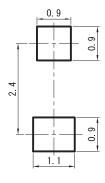
2 Ver. CED

SMini2-F5-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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