

# DB24307

## Silicon epitaxial planar type

For rectification

### ■ Features

- Low forward voltage  $V_F$
- High forward current (Average) rating :  $I_{F(AV)} = 3\text{ A}$
- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

### ■ Packaging

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

### ■ Package

- Code  
TMiniP2-F2-B
- Pin Name  
1: Cathode  
2: Anode

### ■ Marking Symbol: A5

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

Parameter	Symbol	Rating	Unit
Reverse voltage	$V_R$	30	V
Maximum peak reverse voltage	$V_{RM}$	30	V
Forward current (Average)	$I_{F(AV)}$	3.0	A
Non-repetitive peak forward surge current *	$I_{FSM}$	50	A
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +125	$^\circ\text{C}$

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

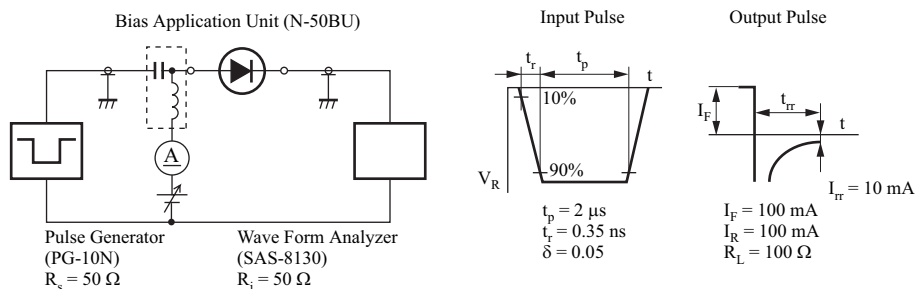
### ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

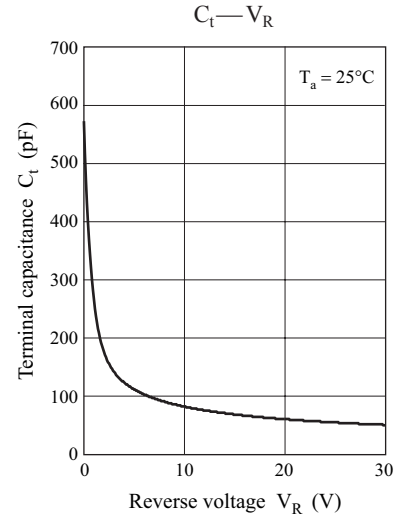
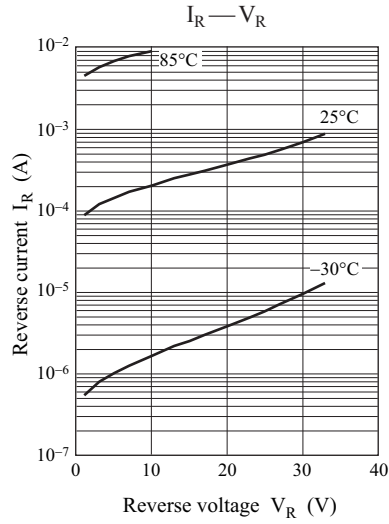
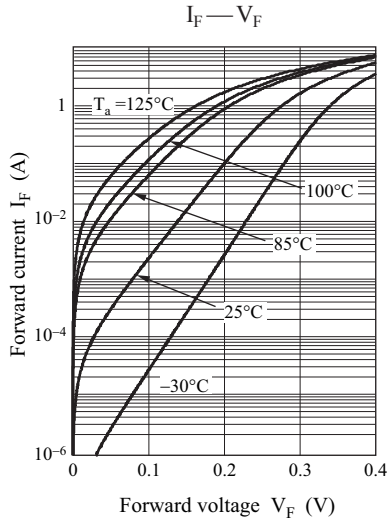
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_F$	$I_F = 3.0\text{ A}$			0.37	V
Reverse current	$I_R$	$V_R = 30\text{ V}$			2.0	mA
Terminal capacitance	$C_t$	$V_R = 10\text{ V}, f = 1\text{ MHz}$		111		pF
Reverse recovery time *	$t_{rr}$	$I_F = I_R = 100\text{ mA}, I_{tr} = 10\text{ mA}, R_L = 100\ \Omega$		35		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.

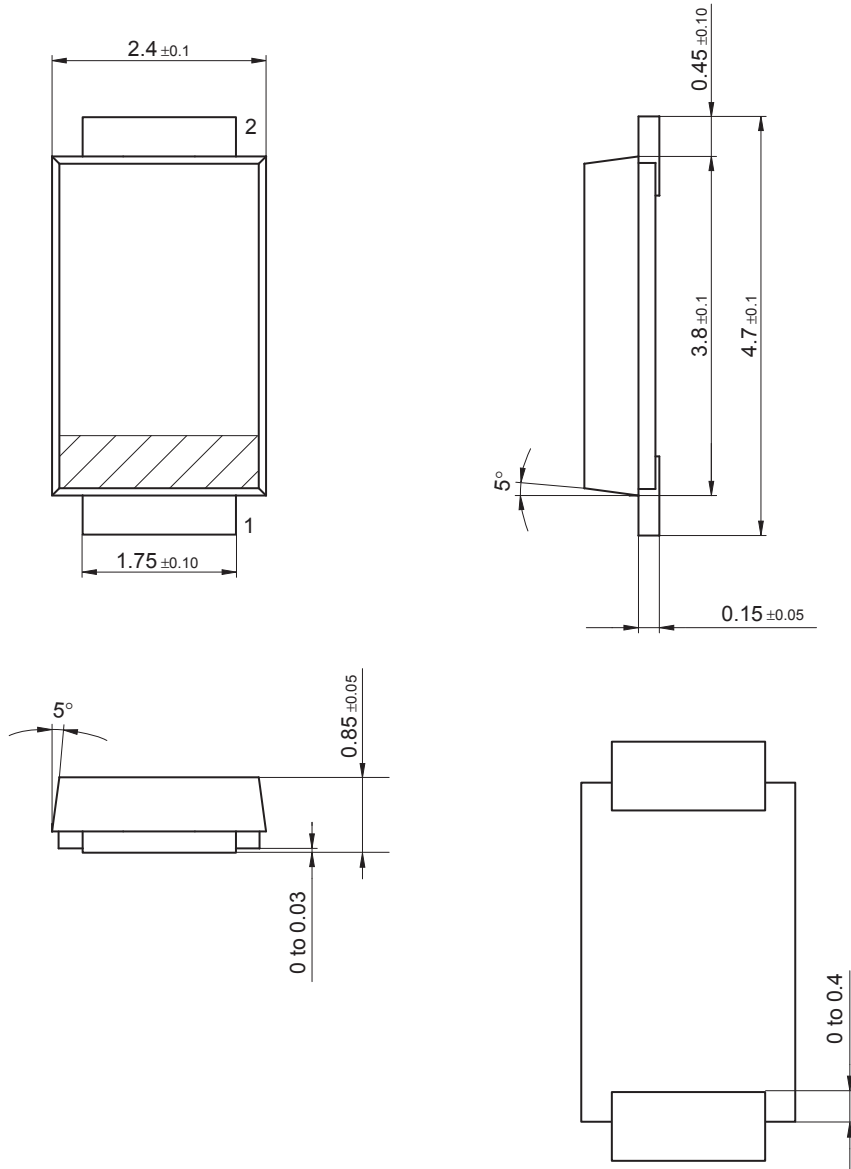
3. \*:  $t_{rr}$  measurement circuit





TMiniP2-F2-B

Unit: mm



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