DB24312

Silicon epitaxial planar type

For rectification

■ Features

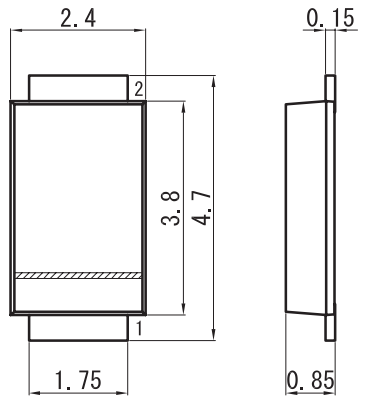
- Low forward voltage V_F
- Forward current (Average) $I_{F(AV)}$ = 5 A rectification is possible
- Halogen-free / RoHS compliant
  (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

■ Marking Symbol: 34

■ Packaging

DB2431200L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

Unit: mm



1: Cathode
2: Anode

Panasonic	TMiniP2-F2-B
JEITA	SC-110A
Code	—

■ Absolute Maximum Ratings T_a = 25°C

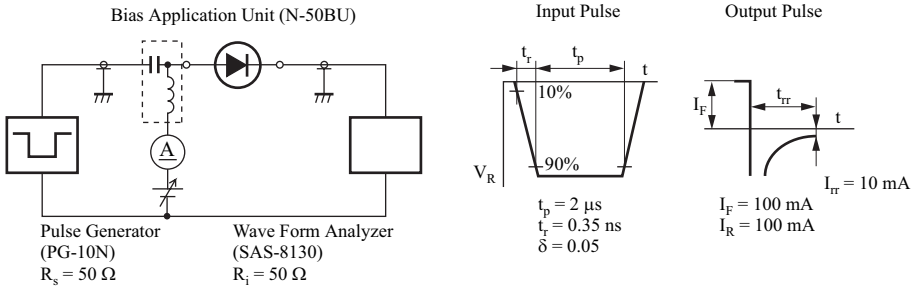
Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Maximum peak reverse voltage	V_{RM}	30	V
Forward current *1	I_F	5.0	A
Non-repetitive peak forward surge current *2	I_{FSM}	30	A
Junction temperature *1	T_j	150	°C
Storage temperature	T_{stg}	−55 to +150	°C

Note) ∗1: T_l = 80°C
∗2: 50 Hz sine wave 1 cycle (Non-repetitive peak current)

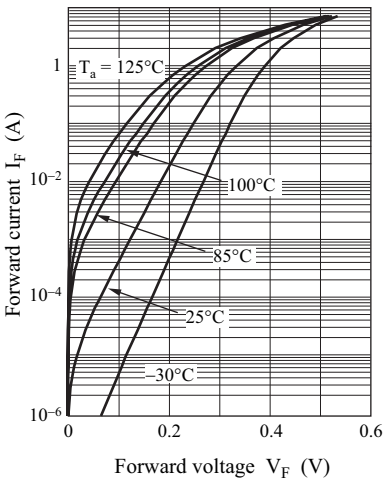
■ Electrical Characteristics T_a = 25°C±3°C

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	I_F = 5.0 A			0.51	V
Reverse current	I_R	V_R = 30 V			300	μA
Terminal capacitance	C_t	V_R = 10 V, f = 1 MHz		74		pF
Reverse recovery time *1	t_{rr}	I_F = I_R = 100 mA, I_{rr} = 10 mA		23		ns

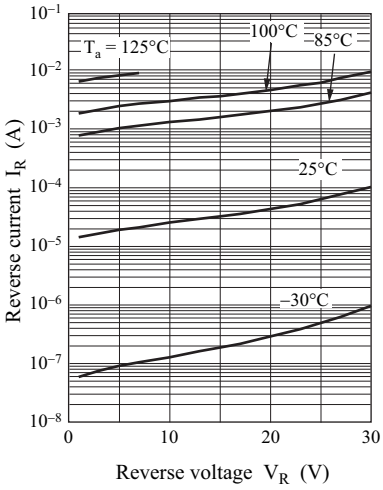
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
3.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



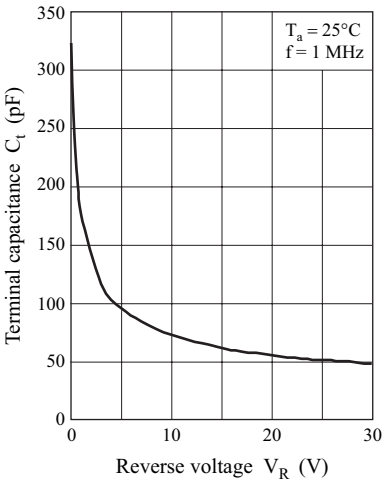
I_F — V_F



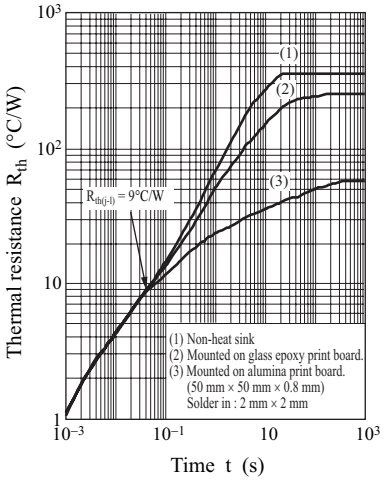
I_R — V_R



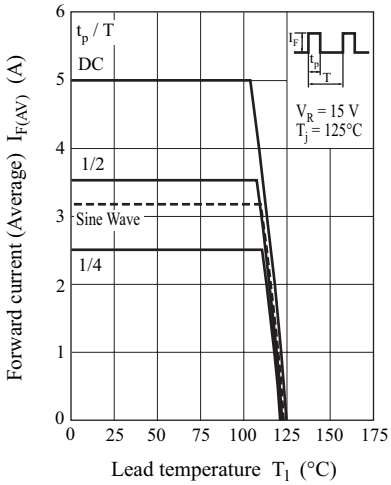
C_t — V_R



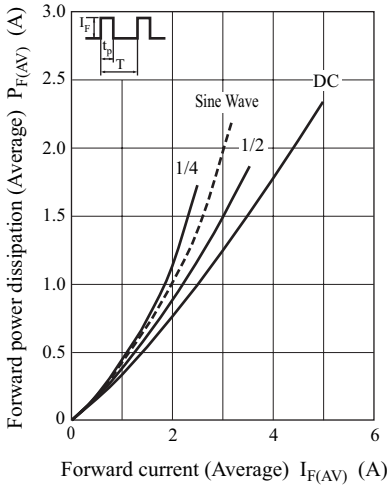
R_{th} — t



$I_{F(AV)}$ — T_l

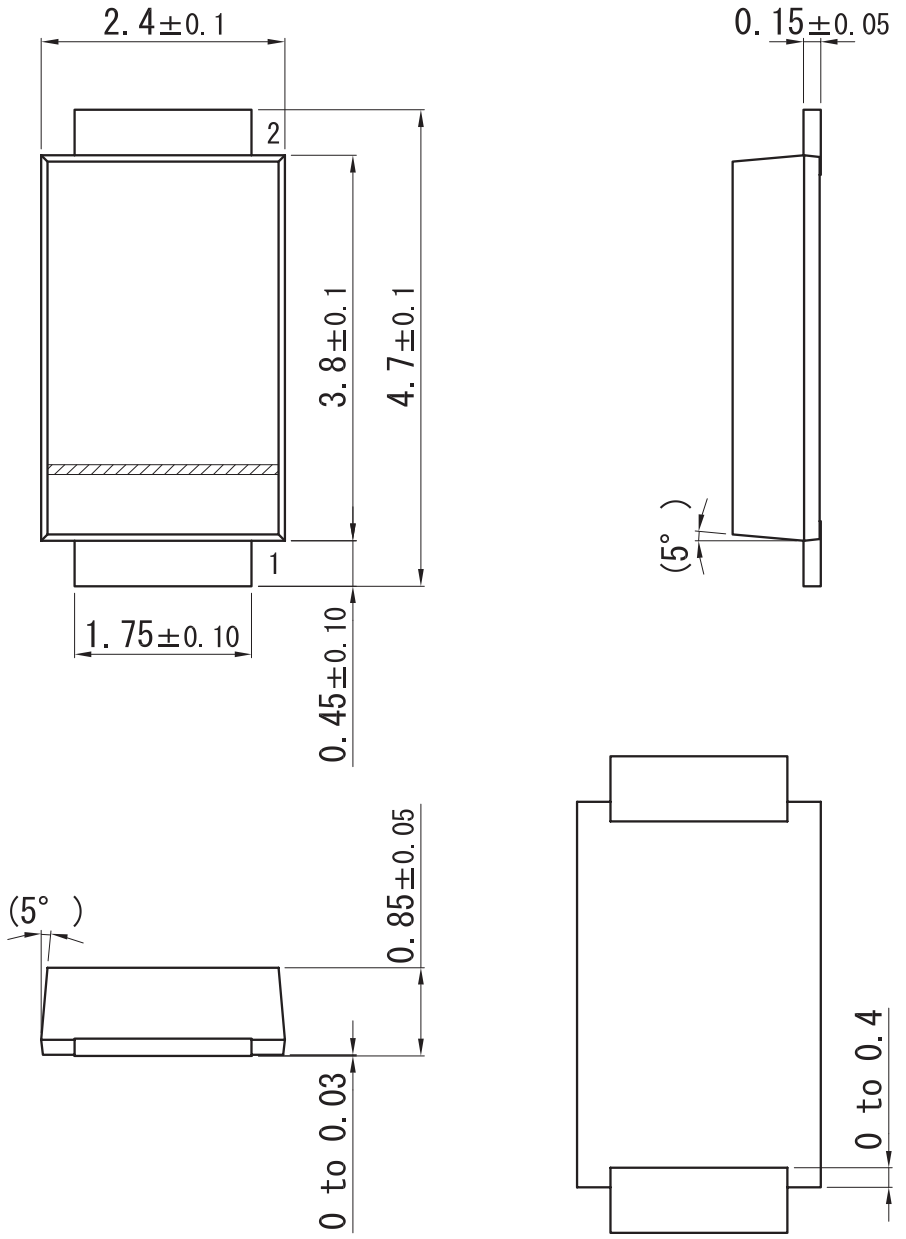


$P_{F(AV)}$ — $I_{F(AV)}$

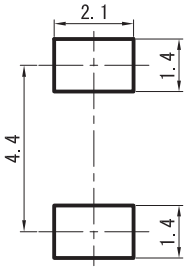


TMiniP2-F2-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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