DB2W319

Silicon epitaxial planar type

For rectification

■ Features

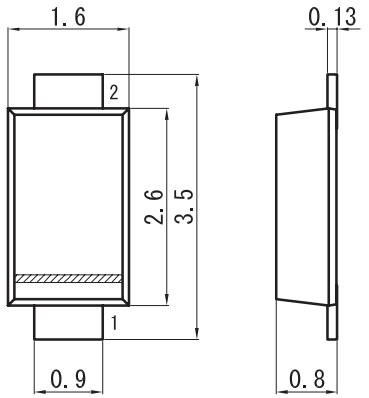
- Low forward voltage V_F
- Low terminal capacitance C_t
- Halogen-free/RoHs compliant
  (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

■ Marking Symbol: 3W

■ Packaging

DB2W31900L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

Unit: mm



1: Cathode
2: Anode

Panasonic	Mini2-F3-B
JEITA	SC-109B
Code	—

■ Absolute Maximum Ratings $T_a = 25°C$

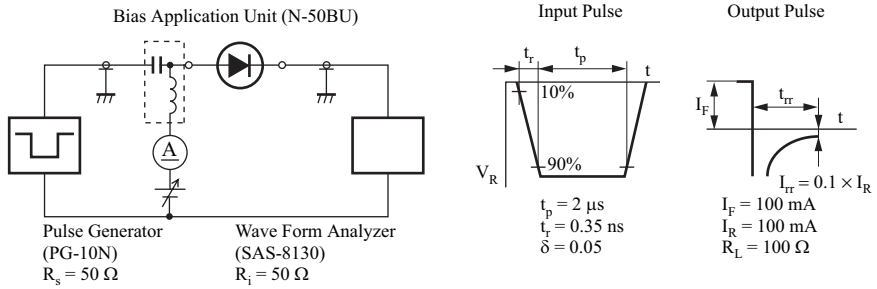
Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Forward current (Average) *1	$I_{F(AV)}$	3	A
Non-repetitive peak forward surge current *2	I_{FSM}	30	A
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	−55 to +125	°C

Note) ∗1: Mounted on an alumina PC board (Board: 50 mm × 50 mm)
∗2: 50 Hz sine wave 1 cycle (Non-repetitive peak current)

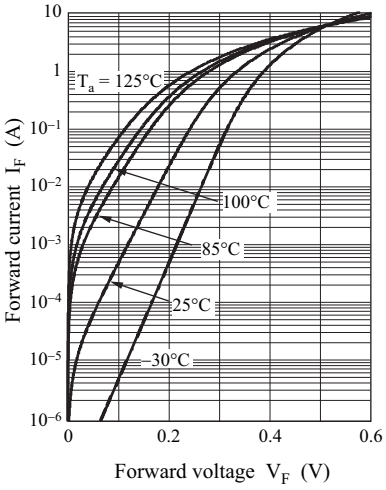
■ Electrical Characteristics $T_a = 25°C \pm 3°C$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 3$ A		0.42	0.49	V
Reverse current	I_R	$V_R = 30$ V		50	200	μA
Terminal capacitance	C_t	$V_R = 10$ V, f = 1 MHz		70		pF
Reverse recovery time *	t_{rr}	$I_F = 100$ mA, $I_{rr} = 0.1 \times I_R$, $R_L = 100\ \Omega$		23		ns

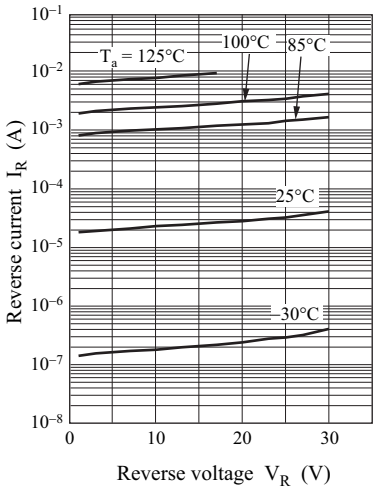
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
3.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



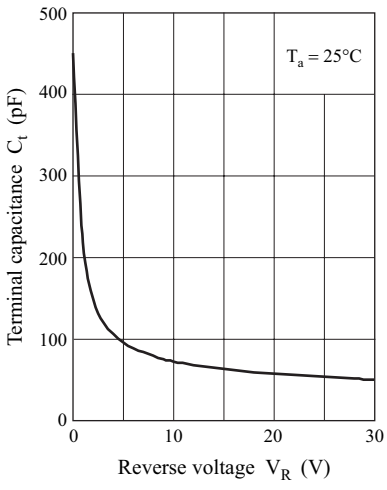
I_F — V_F



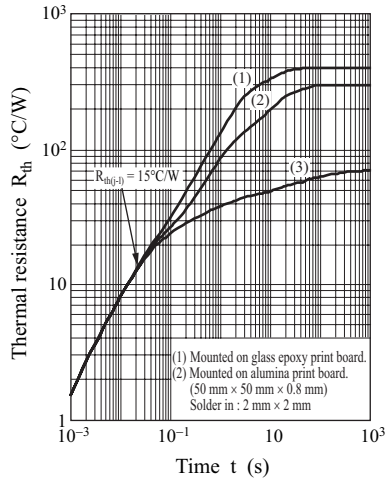
I_R — V_R



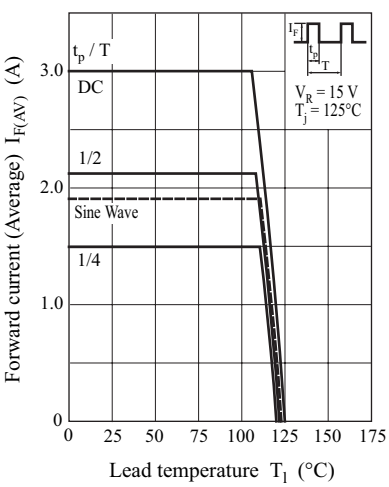
C_t — V_R



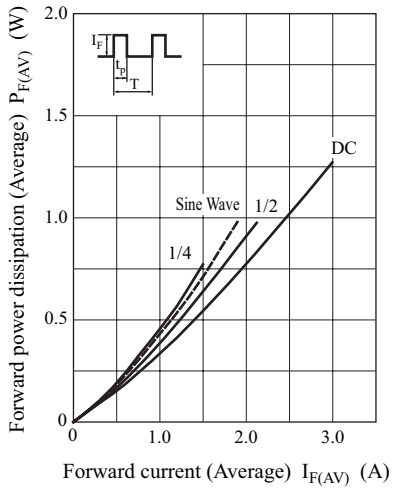
R_{th} — t



$I_{F(AV)}$ — T_l

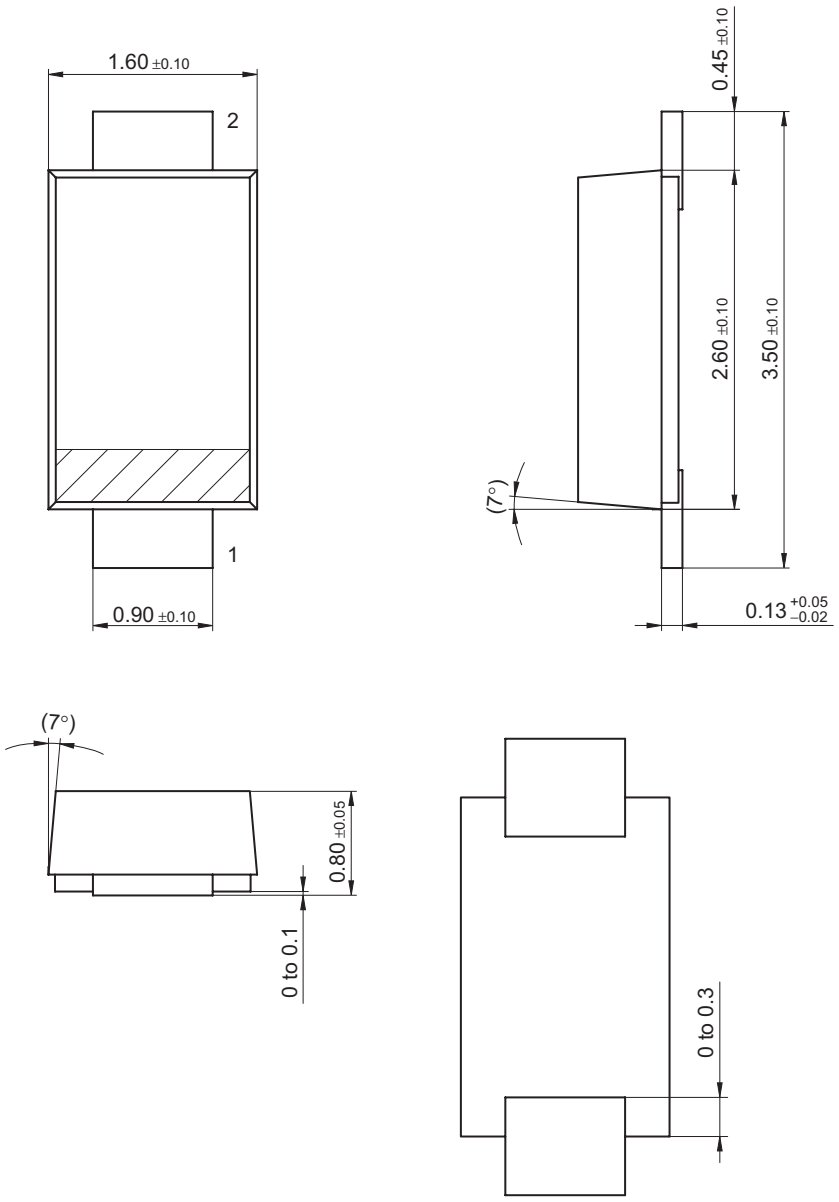


$P_{F(AV)}$ — $I_{F(AV)}$

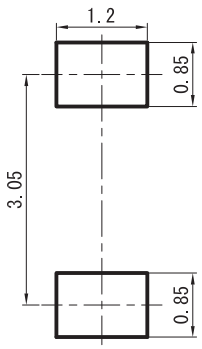


Mini2-F3-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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