DB2X414

Silicon epitaxial planar type

For high frequency rectification

■ Features

- Forward current (Average) $I_{F(AV)}$ = 2 A rectification is possible
- Low forward voltage V_F
- 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
  Mini2-F4-B
- Pin Name
  1: Cathode
  2: Anode

■ Marking Symbol: 4P

■ Absolute Maximum Ratings T_a = 25°C

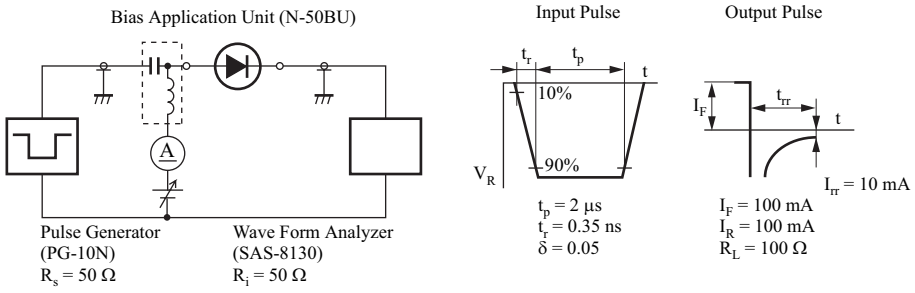
Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	40	V
Maximum peak reverse voltage	V_{RM}	40	V
Forward current (Average) *1	$I_{F(AV)}$	2	A
Non-repetitive peak forward surge current *2	I_{FSM}	15	A
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	−55 to +125	°C

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

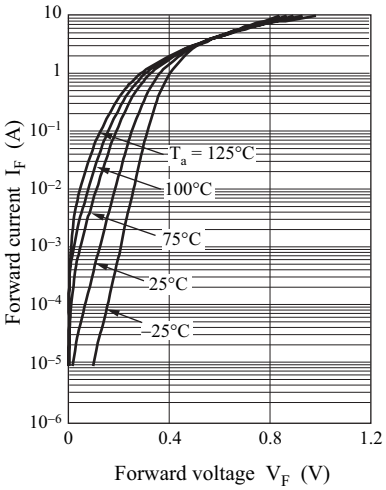
■ Electrical Characteristics T_a = 25°C±3°C

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	I_F = 2 A		0.42	0.49	V
Reverse current	I_R	V_R = 40 V			200	μA
Terminal capacitance	C_t	V_R = 10 V, f = 1 MHz		70		pF
Reverse recovery time *	t_{rr}	$I_F = I_R$ = 100 mA, I_{rr} = 10 mA, R_L = 100 Ω		30		ns

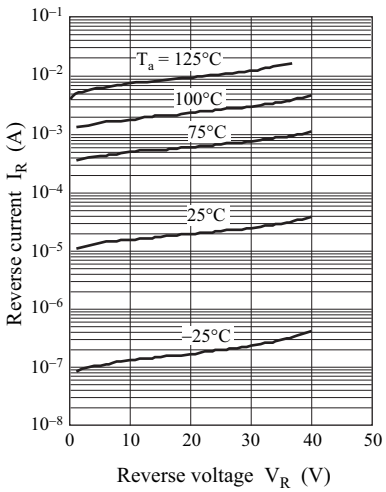
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
3.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



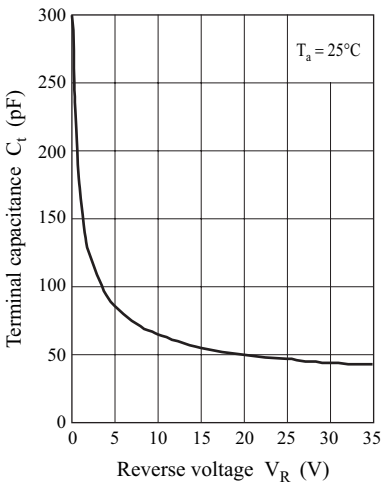
I_F — V_F



I_R — V_R

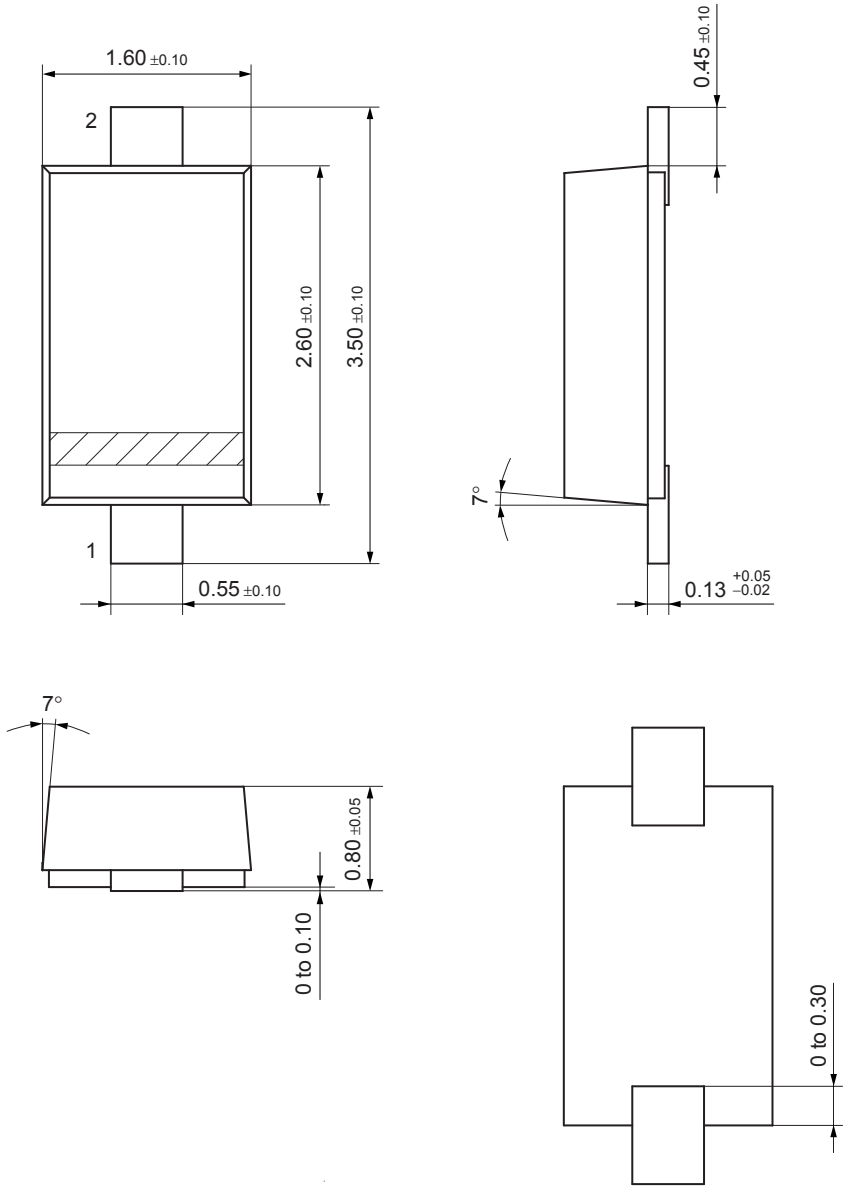


C_t — V_R



Mini2-F4-B

Unit: mm



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