DA3J102D

Silicon epitaxial planar type

For high speed switching circuits
2 elements anode-common type
DA3X102D in SMini3 type package

■ Features

- Short reverse recovery time t_{rr}
- Low terminal capacitance C_t
- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

■ Packaging

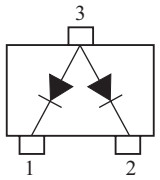
Embossed type (Thermo-compression sealing): 3000 pcs / reel (standard)

■ Package

- Code
  SMini3-F2-B
- Pin Name
  1: Cathode-1 3: Anode-1
  2: Cathode-2 Anode-2

■ Marking Symbol: 23

■ Internal Connection



■ Absolute Maximum Ratings $T_a = 25°C$

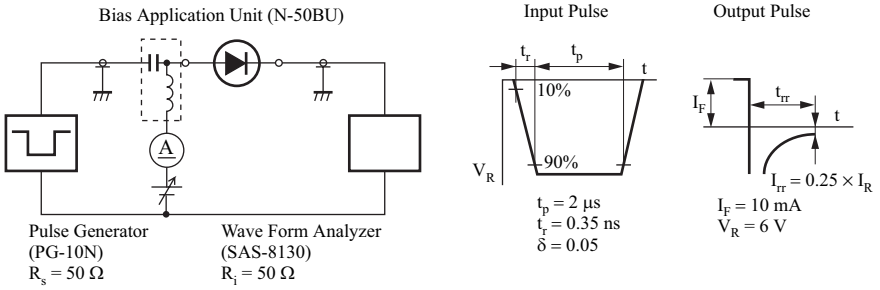
Parameter		Symbol	Rating	Unit
Reverse voltage		V_R	80	V
Maximum peak reverse voltage		V_{RM}	80	V
Forward current	Single	I_F	100	mA
	Double		150	mA
Peak forward current	Single	I_{FM}	225	mA
	Double		340	mA
Non-repetitive peak forward surge current *	Single	I_{FSM}	500	mA
	Double		750	mA
Junction temperature		T_j	150	°C
Storage temperature		T_{stg}	−55 to +150	°C

Note) ∗: 1 t = 1 s

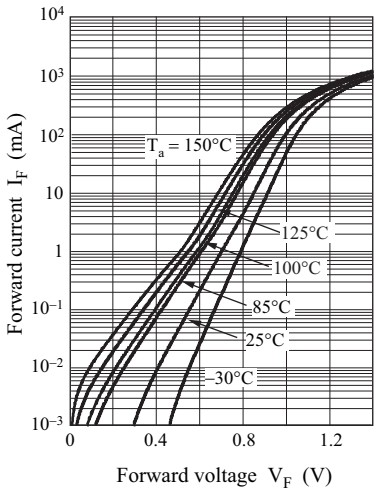
■ Electrical Characteristics $T_a = 25°C \pm 3°C$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 100$ mA			1.2	V
Reverse voltage	V_R	$I_R = 100$ μA	80			V
Reverse current	I_R	$V_R = 80$ V			100	nA
Terminal capacitance	C_t	$V_R = 0$ V, f = 1 MHz			15	pF
Reverse recovery time *	t_{rr}	$I_F = 10$ mA, $V_R = 6$ V, $I_{rr} = 0.25 \times I_R$			10	ns

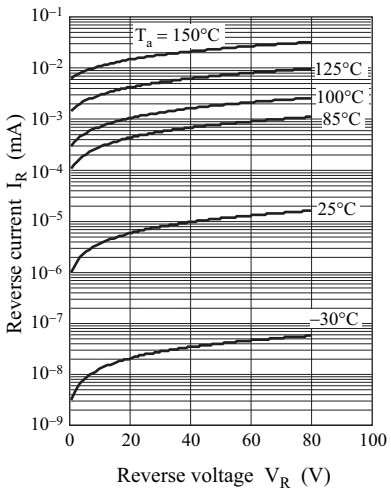
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
3. Absolute frequency of input and output is 100 MHz
∗: t_{rr} measurement circuit



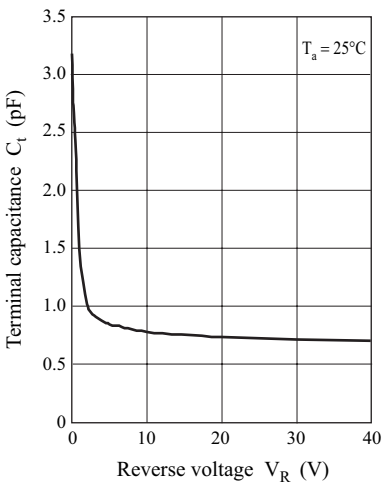
I_F — V_F



I_R — V_R

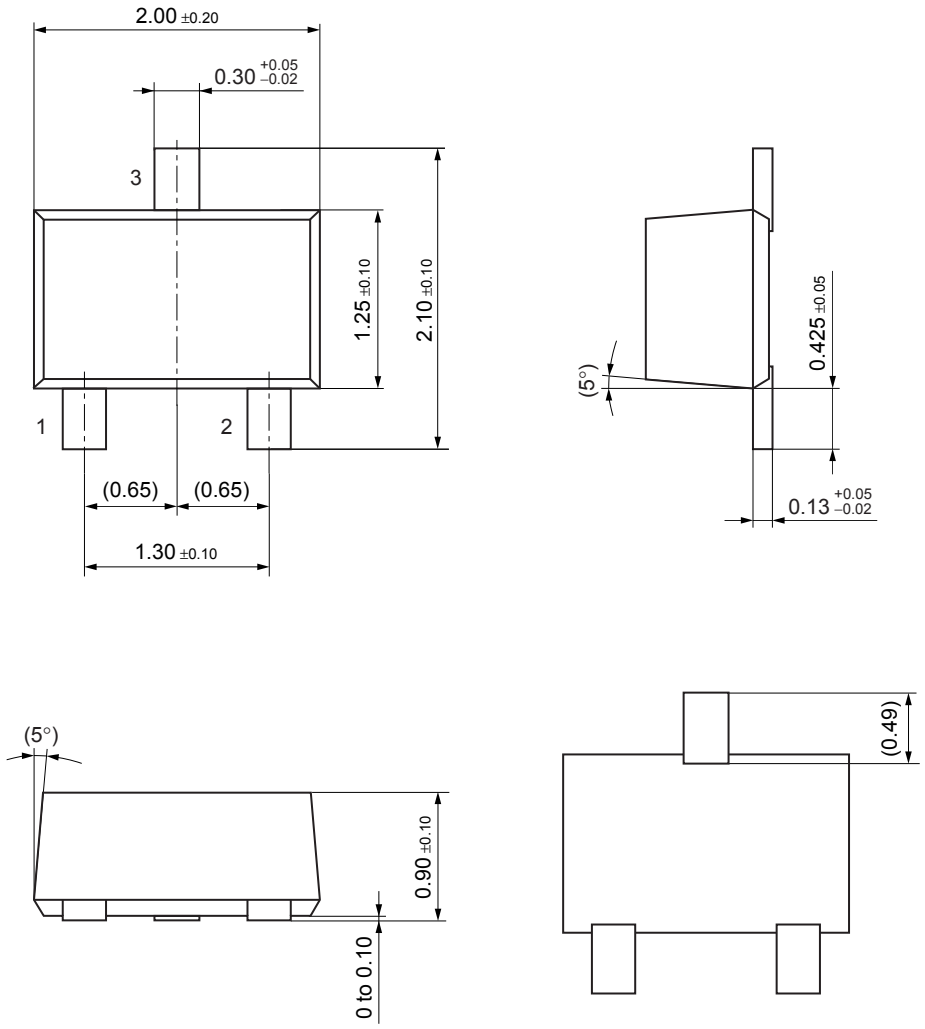


C_t — V_R



SMini3-F2-B

Unit: mm



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