DA5J110V

Silicon epitaxial planar type

For high speed switching circuits

■ Features

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

■ Packaging

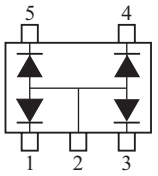
Embossed type (Thermo-compression sealing): 3000 pcs / reel (standard)

■ Package

- Code
  SMini5-F3-B
- Pin Name
  1: Cathode-1 4: Anode-3
  2: Cathode-1, 2, 3, 4 5: Anode-4
  3: Anode-2

■ Marking Symbol: 28

■ Internal Connection



■ Absolute Maximum Ratings $T_a = 25°C$

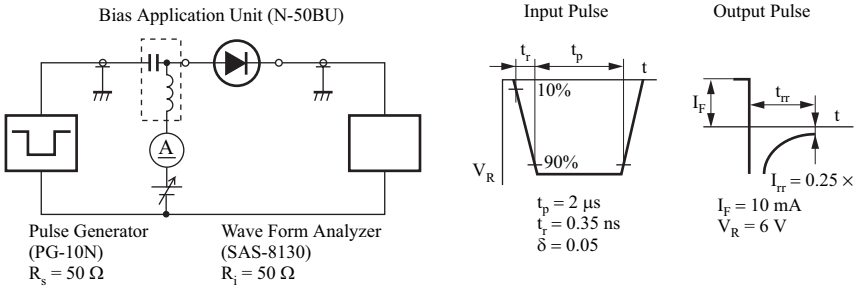
Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	80	V
Maximum peak reverse voltage	V_{RM}	80	V
Forward current	I_F	100	mA
Peak forward current *1	I_{FM}	225	mA
Non-repetitive peak forward surge current *2	I_{FSM}	500	mA
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	−55 to +150	°C

Note) *1: Value for single diode
*2: 1 t = 1 s

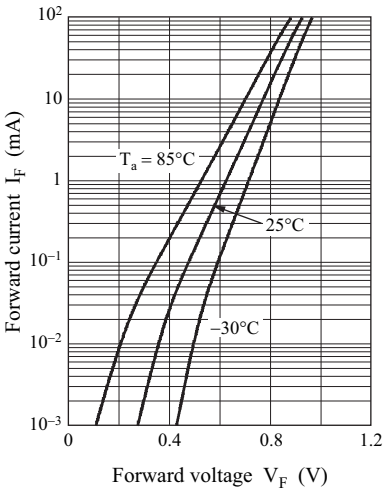
■ Electrical Characteristics $T_a = 25°C \pm 3°C$

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 = 6 V, f = 1 MHz			3.5	pF
Reverse recovery time *1	t_{rr}	I_F = 5 mA, V_R = 6 V, I_{rr} = 0.25 × I_R			5.0	ns
Transistor current *2	I_C	V = ±8 V, I = 1 mA		30		μA

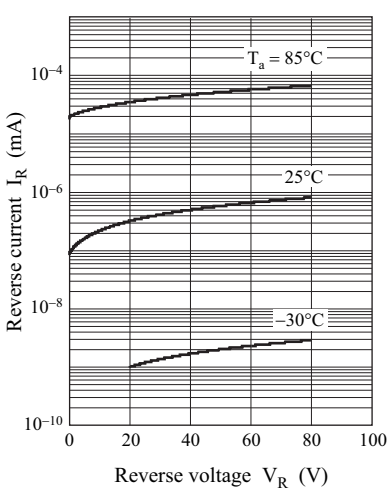
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
2. Absolute frequency of input and output is 100 MHz
3. *1: t_{rr} measurement circuit
*2: Lead 2 is applied current and Lead1-3 or Lead3-4 or Lead4-5 or Lead5-1 is applied voltage.



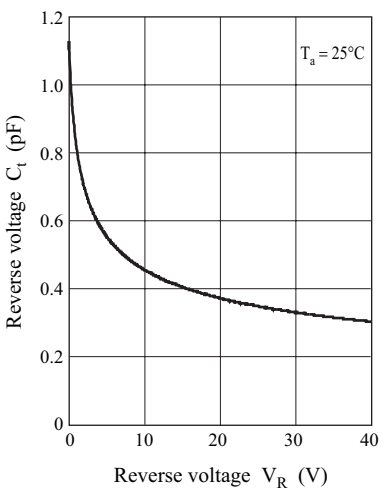
I_F — V_F



I_R — V_R

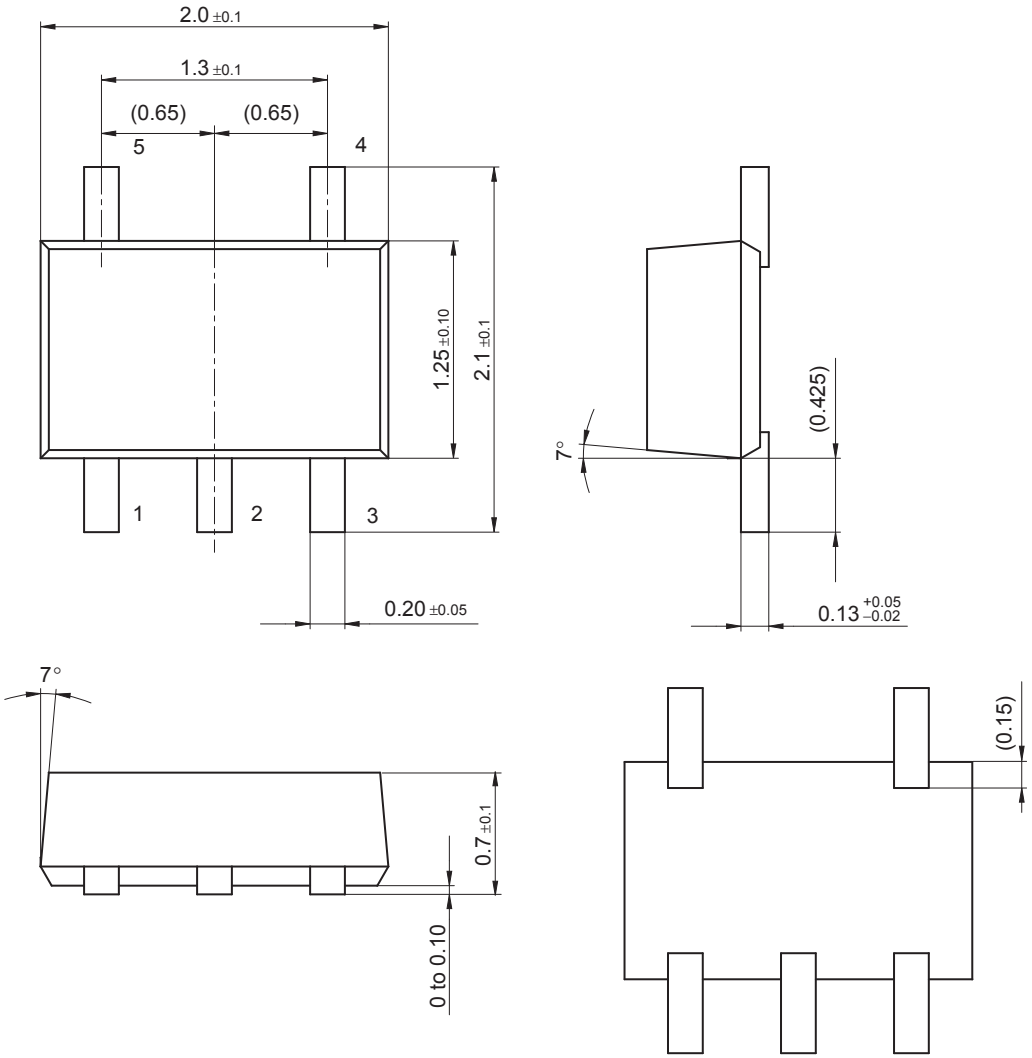


C_t — V_R



SMini5-F3-B

Unit: mm



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