

DA2JF80

Silicon epitaxial planar type

For high speed switching circuits

■ Features

- High repetitive peak reverse voltage V_{RRM}
- Small reverse current I_R
- Halogen-free / RoHS compliant
(EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

■ Marking Symbol: 6A

■ Packaging

DA2JF8000L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

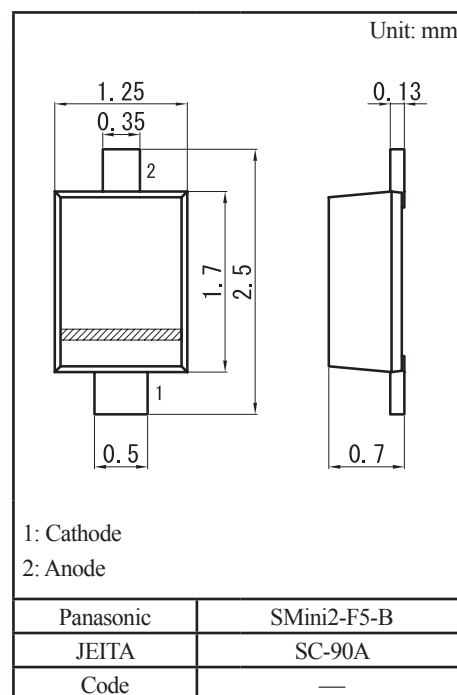
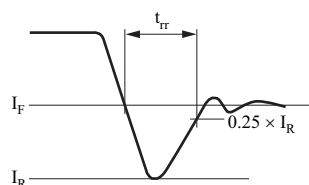
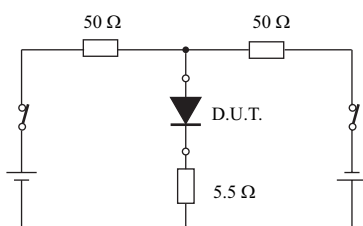
Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}	800	V
Non-repetitive peak reverse surge voltage	V_{RSM}	800	V
Forward current	I_F	200	mA
Non-repetitive peak forward surge current ^{*1, 2}	I_{FSM}	1	A
Junction temperature	T_j	-40 to +150	°C
Storage temperature	T_{stg}	-40 to +150	°C

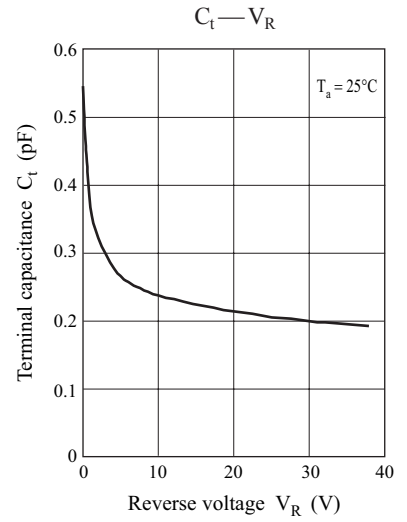
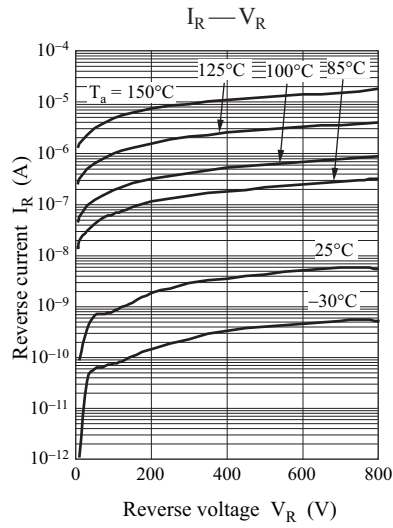
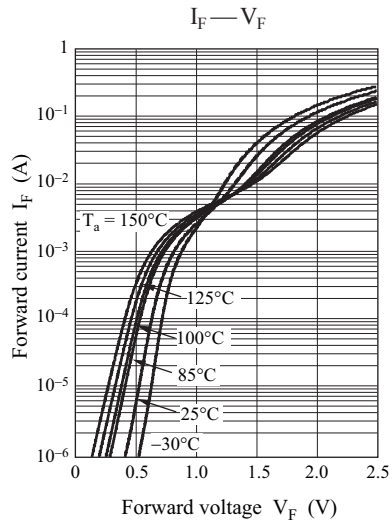
Note) *1: Mounted on an alumina PC board board
(Board: 50 mm × 50 mm, Soldering land: 2 mm × 2 mm)
*2: 50 Hz sine wave 1 cycle (Non-repetitive peak current)

■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 200 \text{ mA}$			3.5	V
Reverse current	I_{RRM1}	$V_{RRM} = 400 \text{ V}$			1	μA
	I_{RRM2}	$V_{RRM} = 800 \text{ V}$			10	
Terminal capacitance	C_t	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$		0.6		pF
Reverse recovery time *	t_{rr}	$I_F = 100 \text{ mA}, I_R = 200 \text{ mA}, I_{tr} = 0.25 \times I_R$		6	20	ns

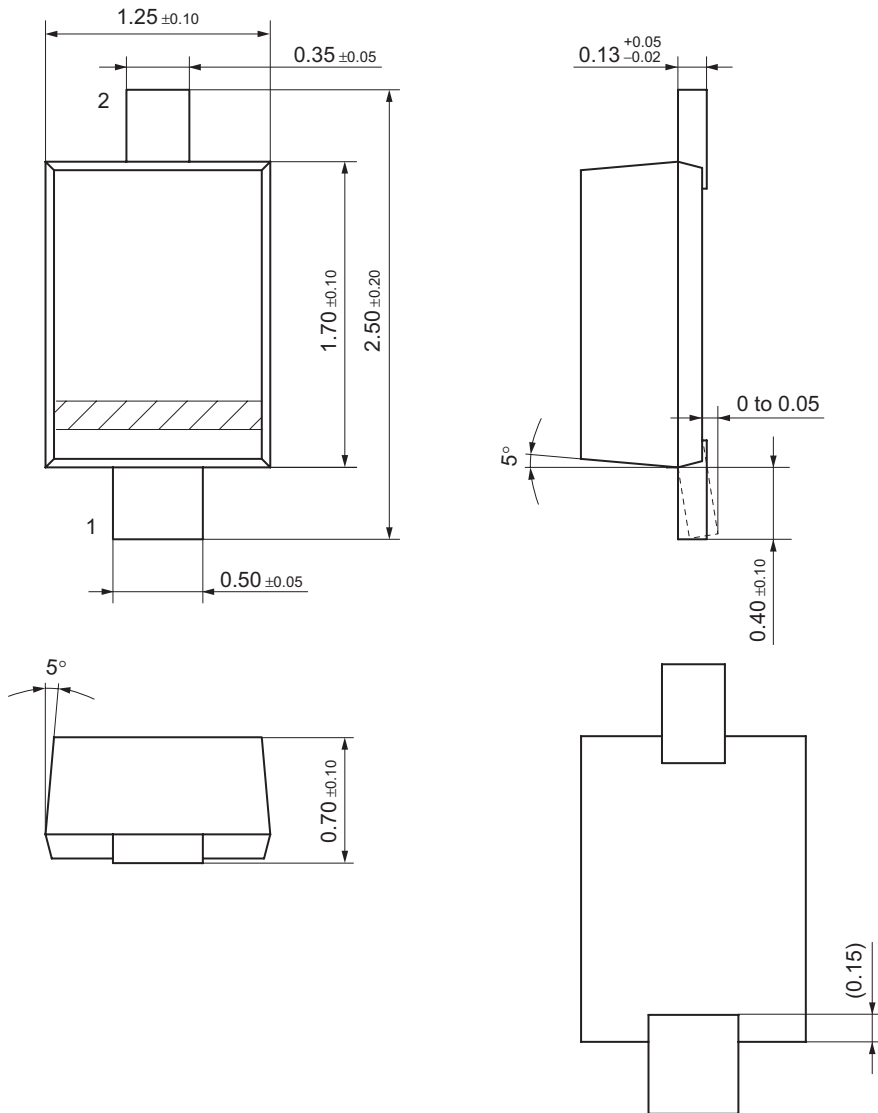
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
3.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



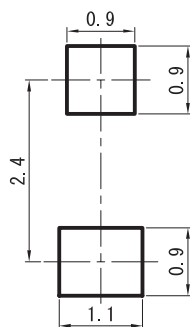


SMini2-F5-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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