# **MA2J7270G**

## Silicon epitaxial planar type

For super high speed switching For small current rectification

#### ■ Features

- $V_R = 50 \text{ V}$  is guaranteed
- $I_{F(AV)} = 200 \text{ mA}$  rectification is possible

#### Package

- Code
- SMini2-F3
- Pin Name
  - 1: Anode 2: Cathode

Marking Symbol: 2F

### ■ Absolute Maximum Ratings $T_a = 25$ °C

<u> </u>					
Parameter	Symbol	Rating	Unit		
Reverse voltage	$V_R$	50	V		
Repetitive peak reverse voltage	V <sub>RRM</sub>	50	V		
Forward current (Average)	I <sub>F(AV)</sub>	200	mA		
Peak forward current	$I_{FM}$	300	mA		
Non-repetitive peak forward	$I_{FSM}$	1	A		
surge current *					
Junction temperature	T <sub>j</sub>	150	°C		
Storage temperature	$T_{\rm stg}$	-55 to +150	°C		

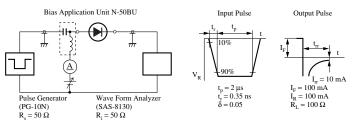
Note) \*: The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)

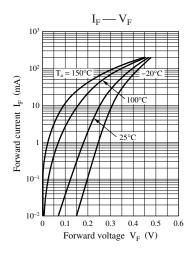
### ■ Electrical Characteristics $T_a = 25$ °C $\pm 3$ °C

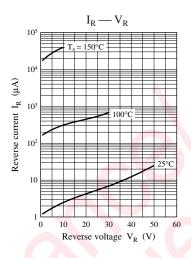
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{F1}$	$I_F = 30 \text{ mA}$	1.90		0.36	V
	V <sub>F2</sub>	I <sub>F</sub> = 200 mA			0.55	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> = 50 V			200	μΑ
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$		30		pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = I_R = 100 \text{ mA}$		3.0		ns
		$I_{rr} = 10 \text{ mA}, R_{L} = 100 \Omega$				

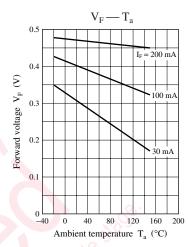
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
  - This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.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

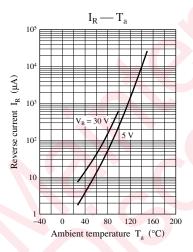
4. \*: t<sub>rr</sub> measurement circuit

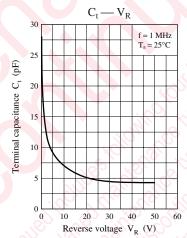


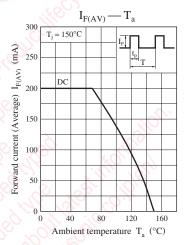






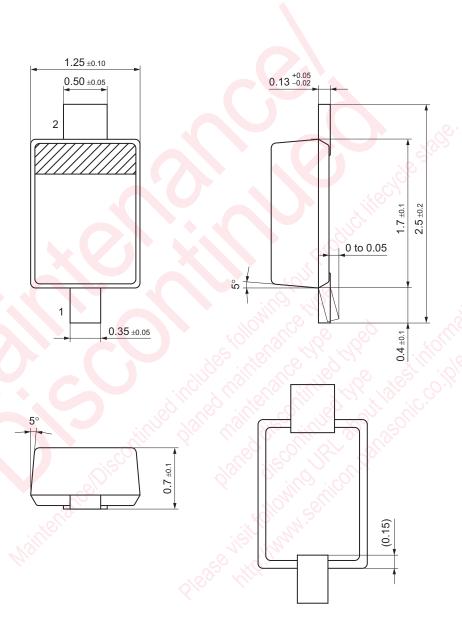






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SMini2-F3 Unit: mm



SKH00170AED 3

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