# MA4Z7130G

#### Silicon epitaxial planar type

#### For switching

For wave detection

#### Features

- Two isolated elements are contained in one package, allowing high-density mounting
- Forward voltage V<sub>F</sub>, optimum for low voltage rectification
- Optimum for high frequency rectification because of its short reverse recovery time (t<sub>rr</sub>)
- Absolute Maximum Ratings  $T_a = 25^{\circ}C$ Symbol Parameter Rating Unit V<sub>R</sub> 30 V Reverse voltage V Maximum peak reverse voltage V<sub>RM</sub> 30 Peak forward 150 Single I<sub>FM</sub> mA current Double 110 Forward current Single 30  $I_{F}$ mΑ Double \* 20 Junction temperature T<sub>i</sub> 125 °C T<sub>stg</sub> -55 to +125 °C Storage temperature



SMini4-F2

2: Anode 2

- Pin Name 1: Anode 1
- 3: Cathode 2 4: Cathode 1
- Marking Symbol: M1N
- Internal Connection



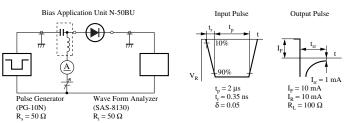
Note) \*: Value of each diode in double diodes used.

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

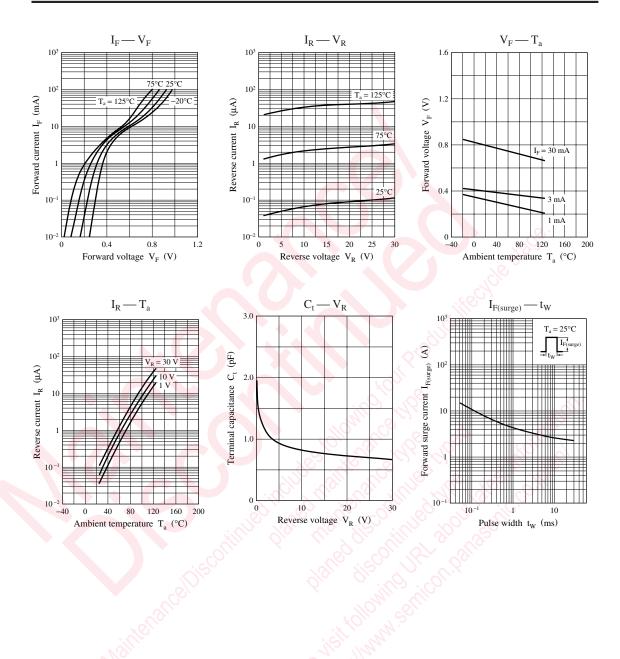
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current	IR	$V_R = 30 V$	2		1	μΑ
Forward voltage	V <sub>F1</sub>	$I_F = 1 \text{ mA}$	0.7		0.4	V
	V <sub>F2</sub>	$I_F = 30 \text{ mA}$			1.0	
Terminal capacitance	Ct	$V_R = 1 V, f = 1 MHz$		1.5		pF
Reverse recovery time	t <sub>rr</sub>	$I_F = I_R = 10 \text{ mA}$		1.0		ns
		$I_{rr} = 1 \text{ mA}, R_L = 100 \Omega$				
Detection efficiency	η	$V_{in} = 3 V_{(peak)}$ , f = 30 MHz		65		%
		$R_L = 3.9 \text{ k}\Omega, C_L = 10 \text{ pF}$				

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. 4.\*: trr measurement circuit
  - 3. Absolute frequency of input and output is 2 GHz.



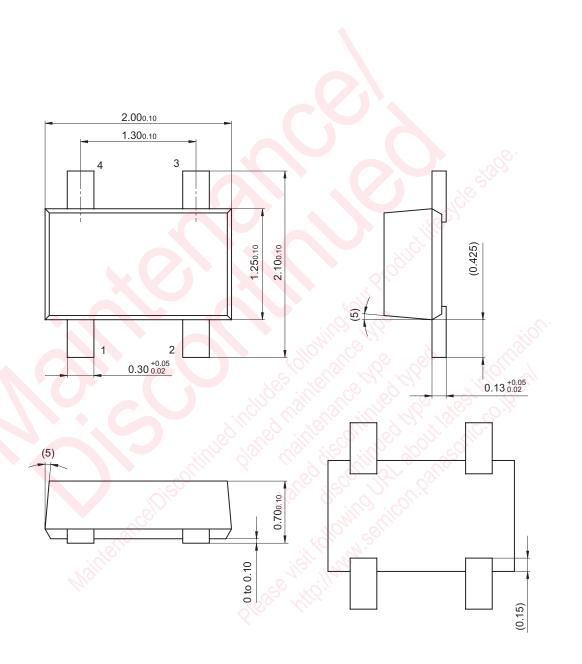
### Panasonic



## Panasonic

### SMini4-F2

Unit: mm



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