# MA2S7280G

### Silicon epitaxial planar type

For switching

For wave detection

#### Features

- High-density mounting is possible
- $\bullet$  Low forward voltage  $V_F$  and good wave detection efficiency  $\eta$
- Small temperature coefficient of forward characteristic
- Small reverse current  $I_R$

Parameter	Symbol	Rating	Unit			
Reverse voltage	V <sub>R</sub>	30	V			
Maximum peak reverse voltage	V <sub>RM</sub>	30	V			
Forward current	$I_F$	30	mA			
Peak forward current	I <sub>FM</sub>	150	mA			
Junction temperature	Tj	125	°C			
Storage temperature	T <sub>stg</sub>	-55 to +125	°C			

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

#### Package

- Code SSMini2-F4
- Pin Name 1: Anode
  - 2: Cathode

Marking Symbol: B

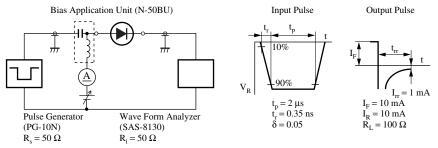
#### Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V <sub>F1</sub>	$I_F = 1 \text{ mA}$			0.4	V
	V <sub>F2</sub>	I <sub>F</sub> = 30 mA			1.0	
Reverse current	I <sub>R</sub>	$V_R = 30 V$			300	nA
Terminal capacitance	Ct	$V_R = 1 V, f = 1 MHz$		1.5		pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = I_R = 10 \text{ mA}$ $I_{rr} = 1 \text{ mA}, R_L = 100 \Omega$		1.0		ns
Detection efficiency	η	$V_{IN} = 3 V_{(peak)} , f = 30 \text{ MHz}$ $R_L = 3.9 \text{ k}\Omega, C_L = 10 \text{ pF}$		65		%

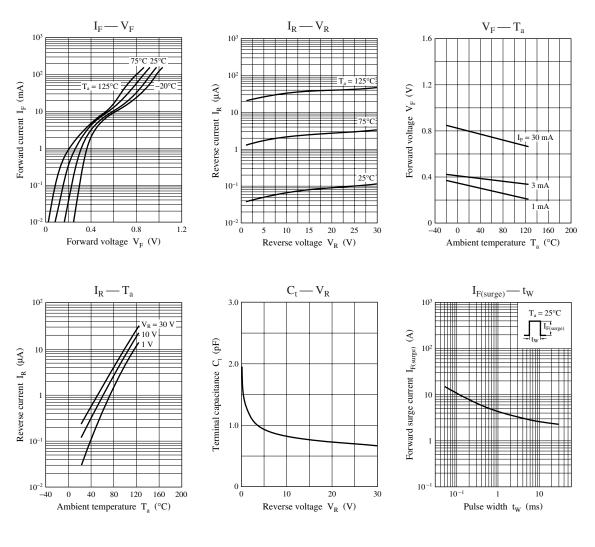
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

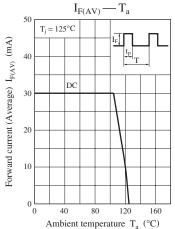
2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

- 3. Absolute frequency of input and output is 2 GHz.
- 4. \*: t<sub>rr</sub> measurement circuit



### Panasonic



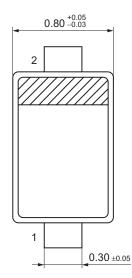


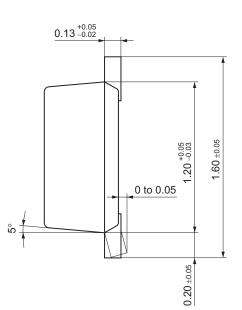
### Panasonic

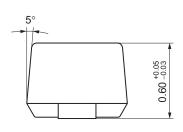
MA2S7280G

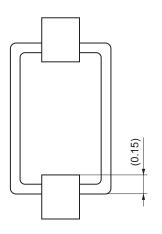
### SSMini2-F4

Unit: mm









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