## MA21D380G

### Silicon epitaxial planar type

For high frequency rectification

#### ■ Features

- $I_{F(AV)} = 1$  A rectification is possible
- ullet Low forward voltage  $V_F$
- Large non-repetitive peak forward surge current I<sub>FSM</sub>

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

Parameter	Symbol	Rating	Unit
Reverse voltage	V <sub>R</sub>	30	V
Maximum peak reverse voltage	V <sub>RM</sub>	30	V
Forward current (Average)	I <sub>F(AV)</sub>	1.0	A
Non-repetitive peak forward surge current *	I <sub>FSM</sub>	20	A
Junction temperature	T <sub>j</sub>	125	°C
Storage time	T <sub>stg</sub>	-55 to +125	°C

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

#### ■ Package

- Code
  - SMini2-F2
- Pin Name
  - 1: Anode
  - 2: Cathode

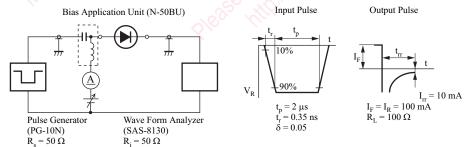
■ Marking Symbol: 3U

#### ■ Electrical Characteristics $T_a = 25$ °C±3°C

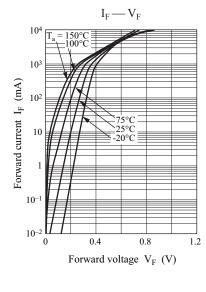
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V <sub>F1</sub>	$I_{\rm F} = 0.5  {\rm A}$		0.34	0.38	V
	$V_{F2}$	$I_{\rm F} = 0.7  \rm A$	\$ . X	0.36	0.40	
	$V_{F3}$	$I_F = 1.0 \text{ A}$	JII 10	0.38	0.42	
Reverse current	$I_R$	$V_R = 30 \text{ V}$	50, 25	2/.	100	μΑ
Terminal capacitance	Ct	$V_R = 10 \text{ V, } f = 1 \text{ MHz}$		40		pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = I_R = 100 \text{ mA}, I_{rr} = 10 \text{ mA},$ $R_L = 100 \Omega$	,3	13		ns

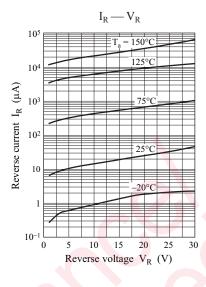
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

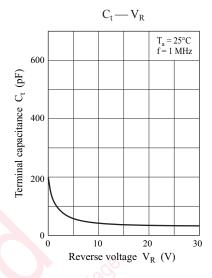
- 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
- 3. \*: t<sub>rr</sub> measurement circuit

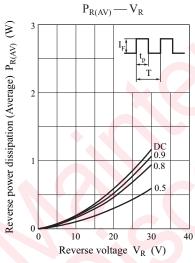


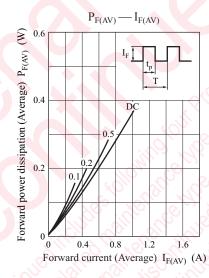
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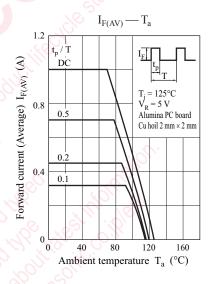


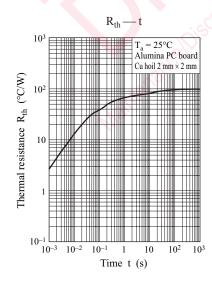


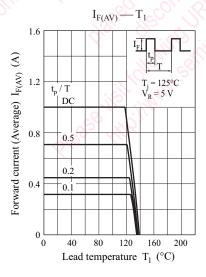








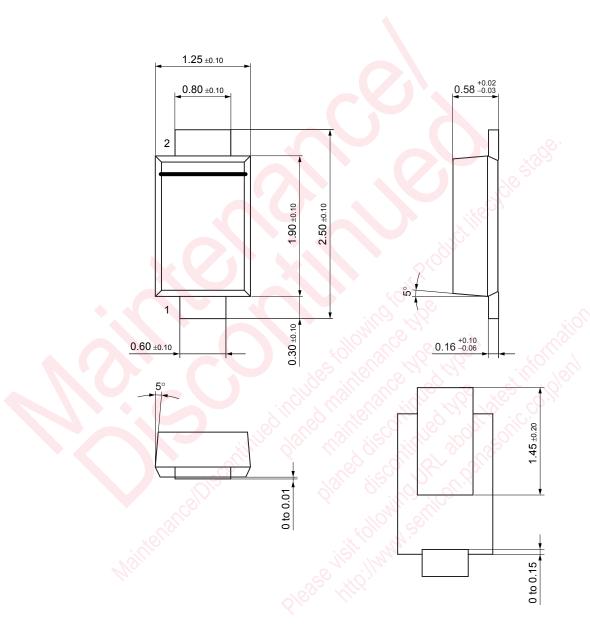




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Panasonic MA21D380G

SMini2-F2 Unit: mm



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