## MA2S7840G

### Silicon epitaxial planar type

For super high speed switching For small current rectification

#### ■ Features

- High-density mounting is possible
- Forward current (Average)  $I_{F(AV)} = 100 \text{ mA}$  rectification is possible
- Optimum for high frequency rectification because of its short reverse recovery time t<sub>rr</sub>
- Low forward voltage V<sub>F</sub> and good rectification efficiency

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

Parameter	Symbol	Rating	Unit
Reverse voltage	$V_{R}$	30	V
Repetitive peak reverse voltage	V <sub>RRM</sub>	30	V
Forward current (Average)	I <sub>F(AV)</sub>	100	mA
Peak forward current	$I_{FM}$	300	mA
Non-repetitive peak forward	I <sub>FSM</sub>	1	A
surge current *			10
Junction temperature	$T_{j}$	125	°C
Storage temperature	T <sub>stg</sub>	-55 to +125	C°C

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

#### Package

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

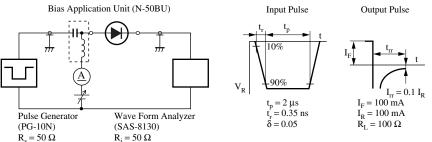
#### ■ Marking Symbol: C

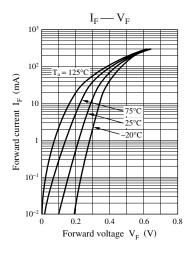
#### ■ Electrical Characteristics T<sub>a</sub> = 25°C ± 3°C

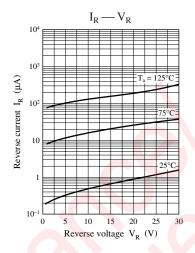
Parameter	Symbol	Conditions	Min Typ	Max	Unit
Forward voltage	$V_{\rm F}$	$I_F = 100 \text{ mA}$		0.55	V
Reverse current	$I_R$	$V_R = 30 \text{ V}$		15	μΑ
Terminal capacitance	C <sub>t</sub>	$V_R = 0 \text{ V, f} = 1 \text{ MHz}$	20		pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = I_R = 100 \text{ mA}$	2.0		ns
		$I_{rr} = 0.1 I_R$ , $R_L = 100 \Omega$			

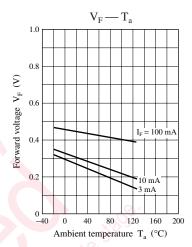
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

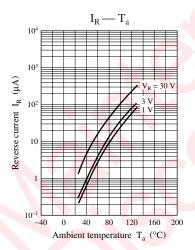
- This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
- 3. Absolute frequency of input and output is 250 MHz.
- 4. \*: t<sub>rr</sub> measurement circuit

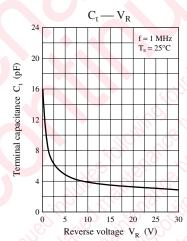


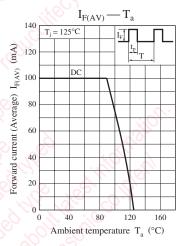




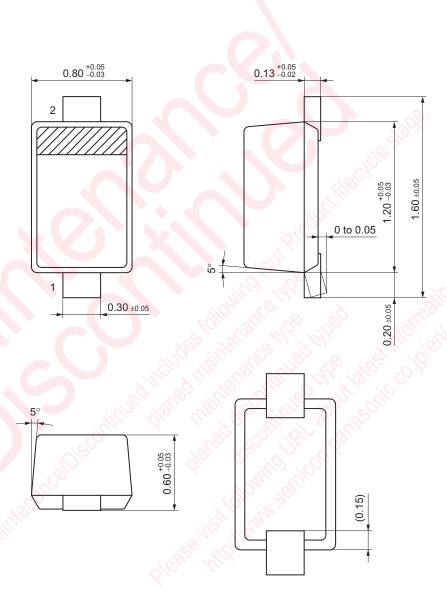








SSMini2-F4 Unit: mm



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