## **MA2SD190G**

### Silicon epitaxial planar type

For super high speed switching

#### ■ Features

• Forward current (Average)  $I_{F(AV)} = 200 \text{ mA}$  rectification is possible

• Low forward voltage:  $V_F < 0.47 \text{ V}$ 

• Small reverse current:  $I_R < 15 \mu A$ 

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

Parameter	Symbol	Rating	Unit
Reverse voltage	$V_R$	20	V
Repetitive peak reverse voltage	$V_{RRM}$	20	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>	125	°C
Storage temperature	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

SSMini2-F4

Pin Name

1: Anode

2: Cathode

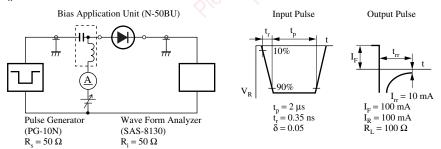
#### ■ Marking Symbol: 3L

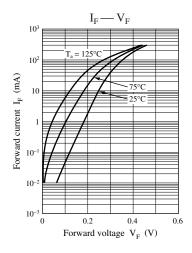
#### ■ Electrical Characteristics $T_a = 25$ °C $\pm 3$ °C

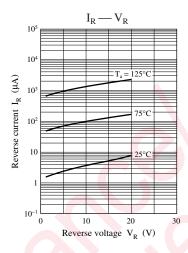
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V <sub>F</sub>	$I_F = 200 \text{ mA}$	00,	0,	0.47	V
Reverse current	$I_R$	$V_R = 10 \text{ V}$		<b>O</b>	15	μΑ
Terminal capacitance	$C_t$	$V_R = 0 V, f = 1 MHz$	200	15		pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = I_R = 100 \text{ mA}$		2		ns
		$I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$				

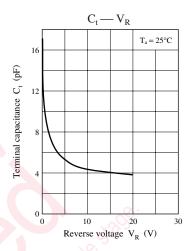
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

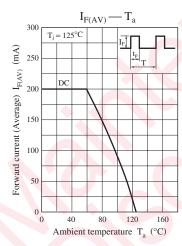
- 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
- 3. Absolute frequency of input and output is 250 MHz.
- 4. \*: t<sub>rr</sub> measurement circuit



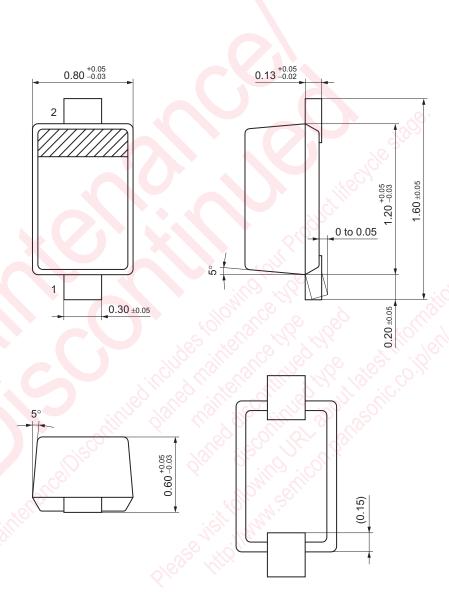








SSMini2-F4 Unit: mm



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