## MA2SD290G

## Silicon epitaxial planar type

For super high speed switching

#### ■ Features

- Low forward voltage:  $V_F < 0.42 \text{ V}$  (at  $I_F = 100 \text{ mA}$ )
- Optimum for high frequency rectification because of its short reverse recovery time  $t_{\rm rr}$ .

### ■ 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	$I_{FM}$	200	mA
Non-repetitive peak forward	I <sub>FSM</sub>	1	A
surge current *			
Junction temperature	$T_{j}$	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)

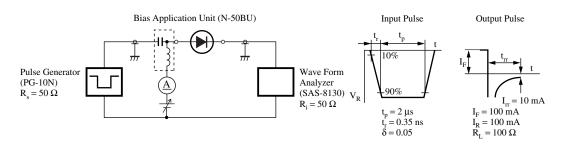
#### Package

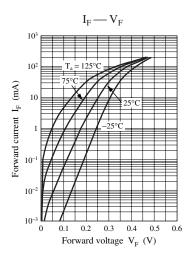
- Code
  - SSMini2-F4
- Pin Name
  - 1: Anode
  - 2: Cathode
- Marking Symbol: 8M

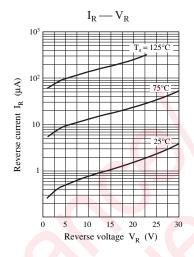
### ■ Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

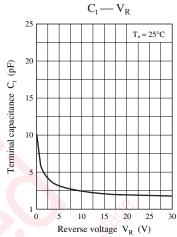
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V <sub>F1</sub>	$I_F = 10 \text{ mA}$		0.25	0.29	V
	V <sub>F2</sub>	$I_F = 100 \text{ mA}$	20,	0.39	0.42	
Reverse current	$I_{R1}$	$V_R = 10 \text{ V}$	00	<b>)</b> -	25	μΑ
	$I_{R2}$	$V_R = 30 \text{ V}$	50		120	
Terminal capacitance	C <sub>t</sub>	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$	·	11		pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = I_R = 100 \text{ mA}$		1		ns
		$I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$				

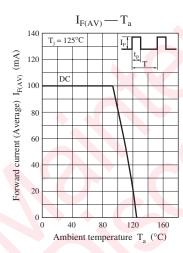
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
  - 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
  - 3. Absolute frequency of input and output is 250 MHz
  - 4. \*: t<sub>rr</sub> measurement circuit





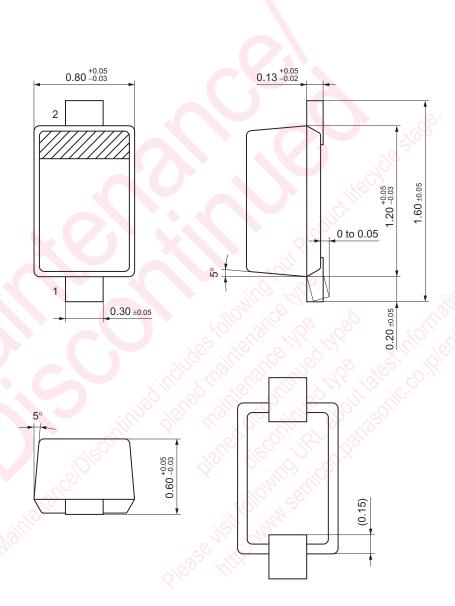






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SSMini2-F4 Unit: mm



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