# MA2J113 (MA113)

### Silicon epitaxial planar type

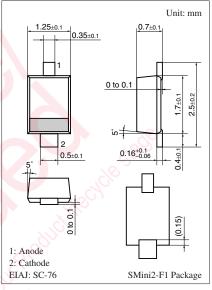
For switching circuits

#### Features

- Allowing high-density mounting
- Ensuring the forward current (Average) capacity  $I_{F(AV)} = 200 \text{ mA}$
- High breakdown voltage:  $V_R = 80 V$

Absolute Maximum Ratings  $T_0 = 25^{\circ}C$ 

Parameter	Symbol	Rating	Unit			
Reverse voltage	VR	80	v			
Maximum peak reverse voltage	V <sub>RM</sub>	80	V			
Forward current (Average)	I <sub>F(AV)</sub>	200	mA			
Peak forward current	I <sub>FM</sub>	600	mA			
Non-repetitive peak forward surge current *	I <sub>FSM</sub>	1	А			
Junction temperature	Tj	150	°C			
Storage temperature	T <sub>stg</sub>	-55 to +150	°C			



#### Marking Symbol: 1D

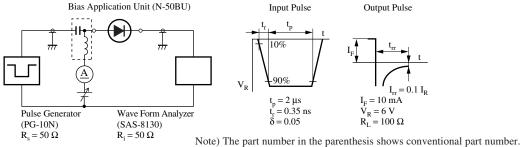
Note) \*: t = 1 s

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

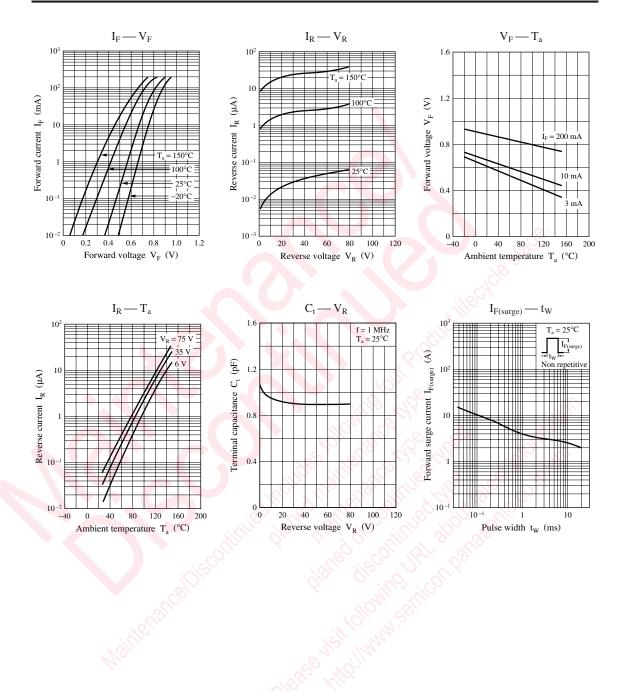
Parameter	Symbol	Conditions	Min	Тур	Мах	Unit
Forward voltage	V <sub>F</sub>	I <sub>F</sub> = 200 mA		0-	1.1	V
Reverse current	I <sub>R1</sub>	V <sub>R</sub> = 15 V	20		50	nA
	I <sub>R2</sub>	$V_R = 75 V$			500	
	I <sub>R3</sub>	$V_{R} = 75 V, T_{a} = 100^{\circ}C$			100	μΑ
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$			4	pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$			10	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.

- 2. Absolute frequency of input and output is 100 MHz.
- 3. \*: t<sub>rr</sub> measurement circuit



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