## **Panasonic**

# **MA2J111** (MA111)

## Silicon epitaxial planar type

#### For switching circuits

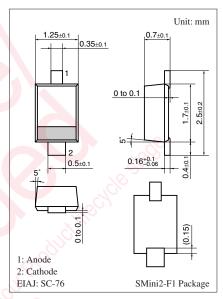
#### ■ Features

- Allowing high-density mounting
- Short reverse recovery time t<sub>rr</sub>
- Small terminal capacitance C<sub>t</sub>
- High breakdown voltage:  $V_R = 80 \text{ V}$

### ■ Absolute Maximum Ratings T<sub>a</sub> = 25°C

Parameter	Symbol	Rating	Unit
Reverse voltage	$V_R$	80	V
Maximum peak reverse voltage	$V_{RM}$	80	V
Forward current	$I_{\mathrm{F}}$	100	mA
Peak forward current	$I_{FM}$	225	mA
Non-repetitive peak forward surge current *	I <sub>FSM</sub>	500	mA
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C

Note) \*: t = 1 s

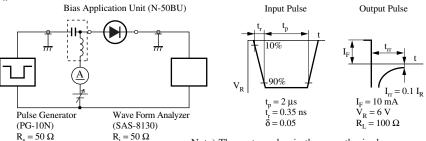


Marking Symbol: 1B

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

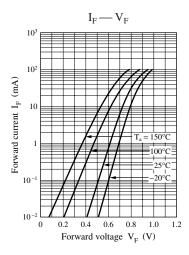
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{\rm F}$	$I_F = 100 \text{ mA}$	1.90	0.95	1.20	V
Reverse voltage	$V_R$	$I_R = 100 \mu\text{A}$	80			V
Reverse current	$I_R$	V <sub>R</sub> = 75 V			100	nA
Terminal capacitance	$C_{t}$	$V_R = 0 V, f = 1 MHz$		0.6	1.2	pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$			3	ns
		$I_{rr} = 0.1 I_{R}, R_{L} = 100 \Omega$				

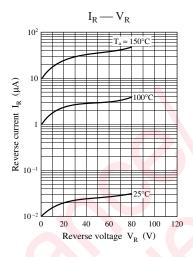
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
  - 2. Absolute frequency of input and output is 100 MHz.
  - 3. \*: t<sub>rr</sub> measurement circuit

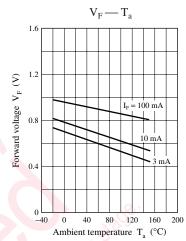


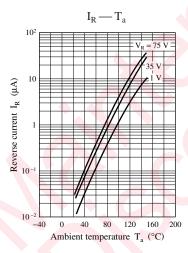
Note) The part number in the parenthesis shows conventional part number.

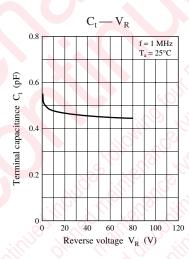
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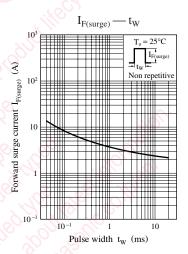












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