# MA2J111 (MA111)

### Silicon epitaxial planar type

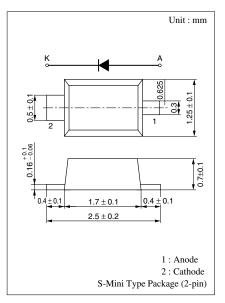
For switching circuits

#### Features

- Small S-mini type package, allowing high-density mounting
- Short reverse recovery time t<sub>rr</sub>
- Small terminal capacitance, Ctt
- High breakdown voltage ( $V_R = 80 \text{ V}$ )

<b>3</b> a					
Parameter	Symbol	Rating	Unit		
Reverse voltage (DC)	V <sub>R</sub>	80	V		
Peak reverse voltage	V <sub>RM</sub>	80	V		
Average forward current	I <sub>F(AV)</sub>	100	mA		
Peak forward current	I <sub>FM</sub>	225	mA		
Non-repetitive peak forward surge current*	I <sub>FSM</sub>	500	mA		
Junction temperature	Tj	150	°C		
Storage temperature	T <sub>stg</sub>	-55 to +150	°C		





#### Marking Symbol: 1B

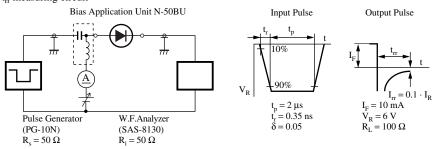
Note) \*: t = 1 s

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

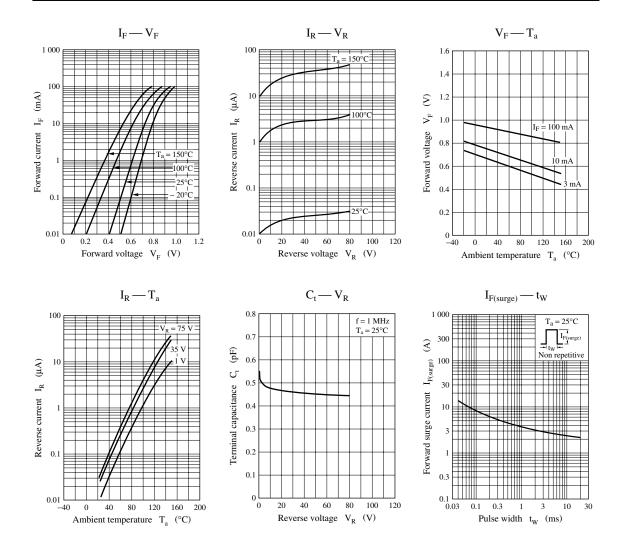
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I <sub>R</sub>	V <sub>R</sub> = 75 V			100	nA
Forward voltage (DC)	V <sub>F</sub>	$I_F = 100 \text{ mA}$		0.95	1.2	V
Reverse voltage (DC)	V <sub>R</sub>	$I_R = 100 \ \mu A$	80			V
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$		0.6	1.2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

Note) 1. Rated input/output frequency: 100 MHz

2. \* : t<sub>rr</sub> measuring circuit



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



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