# MA6X121 (MA121)

Silicon epitaxial planar type

#### Features

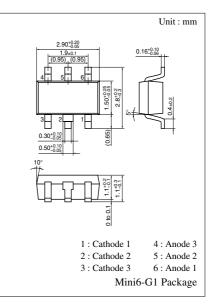
- Three-element contained in one package, allowing high-density mounting
- Short reverse recovery time  $t_{rr}$
- Small terminal capacitance, C<sub>t</sub>

<b>0</b> "					
Parameter	Symbol	Rating	Unit		
Reverse voltage (DC)	V <sub>R</sub>	80	V		
Peak reverse voltage	V <sub>RM</sub>	80	V		
Forward current (DC)*1	I <sub>F</sub>	100	mA		
Peak forward current*1	I <sub>FM</sub>	225	mA		
Non-repetitive peak forward surge current <sup>*1,2</sup>	I <sub>FSM</sub>	500	mA		
Junction temperature	Tj	150	°C		
Storage temperature	T <sub>stg</sub>	-55 to +150	°C		

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

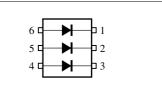
Note) \*1: Value for single diode

\*2: t = 1 s



#### Marking Symbol: M2D

#### Internal Connection

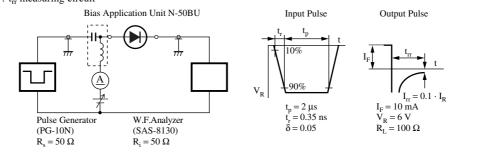


Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I <sub>R</sub>	$V_R = 75 V$			100	nA
Forward voltage (DC)	V <sub>F</sub>	$I_F = 100 \text{ mA}$			1.2	V
Reverse voltage (DC)	V <sub>R</sub>	$I_R = 100 \ \mu A$	80			V
Terminal capacitance	Ct	$V_{R} = 0 V, f = 1 MHz$			2	pF
Reverse recovery time*	t <sub>rr</sub>	$I_F = 10$ mA, $V_R = 6$ V $I_{rr} = 0.1 \cdot I_R$ , $R_L = 100$ Ω			3	ns

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

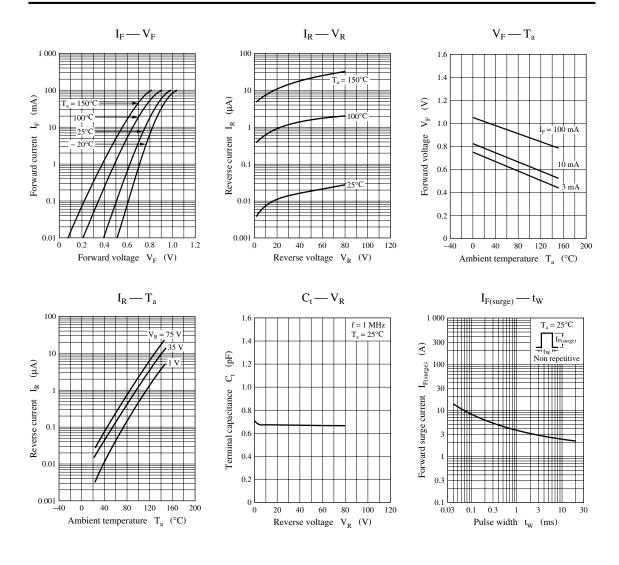
Note) 1. Rated input/output frequency: 100 MHz

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



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

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