# **MA6X124** (MA124)

## Silicon epitaxial planar type

### For switching circuit

#### ■ Features

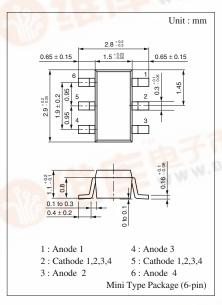
- Four-element contained in one package, allowing high-density mounting
- Centrosymmetrical wiring, allowing to free from the taping direction
- Short reverse recovery time t<sub>rr</sub>
- Small terminal capacitance, Ct

## ■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	$V_R$	80	V
Peak reverse voltage	V <sub>RM</sub>	80	V
Average forward current*1	$I_{\mathrm{F}}$	100	mA
Peak forward current*1	$I_{FM}$	225	mA
Non-repetitive peak forward surge current*1,2	$I_{FSM}$	500	mA
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C

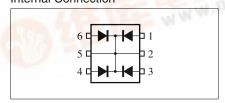
Note) \*1: Value for single diode

\*2: t = 1 s



Marking Symbol: M2C

## Internal Connection

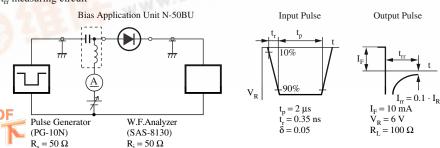


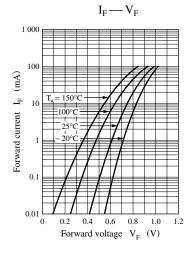
## ■ Electrical Characteristics T<sub>a</sub> = 25°C

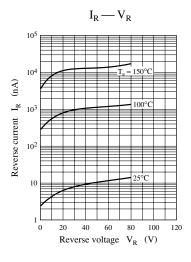
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I <sub>R</sub>	$V_R = 75 \text{ V}$			100	nA
Forward voltage (DC)	V <sub>F</sub>	I <sub>F</sub> = 100 mA			1.2	V
Reverse voltage (DC)	V <sub>R</sub>	$I_R = 100 \mu A$	80			V
Terminal capacitance	Ct	$V_R = 0 \text{ V, } f = 1 \text{ MHz}$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

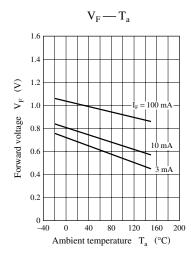
Note) 1. Rated input/output frequency: 100 MHz

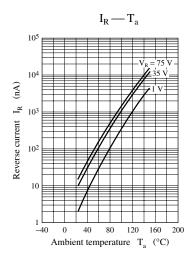
2. \*: t<sub>rr</sub> measuring circuit

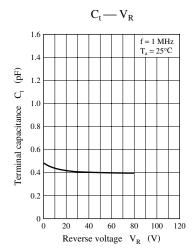


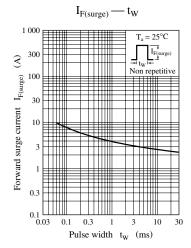












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