## **Panasonic**

# MA6X126 (MA126)

## Silicon epitaxial planar type

For switching circuit

#### ■ Features

- Four isolated elements contained in one package, allowing highdensity mounting
- High breakdown voltage:  $V_R = 80 \text{ V}$

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

Parameter	Symbol	Rating	Unit	
Reverse voltage	$V_R$	80	V	
Maximum peak reverse voltage	V <sub>RM</sub> 80		V	
Forward current *1	$I_{F}$	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

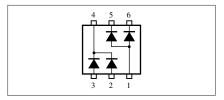
\*2: t = 1 s

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

2.90 <sup>+0.20</sup> <sub>-0.05</sub> 1.9±0.1 (0.95) <sub>+</sub> (0.95) <sub>+</sub> 4 5 6 6 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	0.16 <sup>40.10</sup> Unit: mm
0 to 0.1 1.1 1.0 1.3 1.0 1.3 1.0 1.0 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1: Anode 3, 4 2: Anode 1 3: Anode 2 4: Cathode 1, 2 5: Cathode 3 6: Cathode 4
EIAJ: SC-74	Mini6-G1 Package

Marking Symbol: M2S

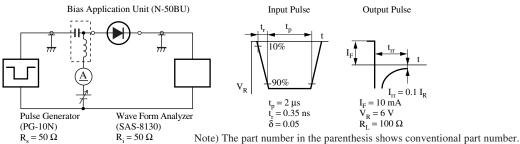
#### Internal Connection



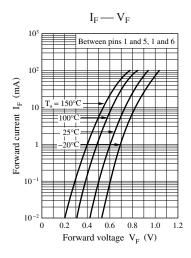
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{F}$	$I_F = 100 \text{ mA}$			1.2	V
Reverse voltage	$V_R$	$I_R = 100 \mu A$	80			V
Reverse current	$I_R$	$V_R = 75 \text{ V}$			100	nA
Terminal capacitance	C <sub>t1</sub> *1	$V_R = 0 V, f = 1 MHz$			15	pF
	C <sub>t2</sub> *2				2	
Reverse recovery time *3	t <sub>rr1</sub> *1	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$			10	ns
	t <sub>rr2</sub> *2	$I_{rr} = 0.1 I_R, R_L = 100 \Omega$			3	

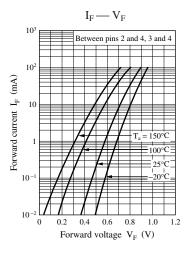
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

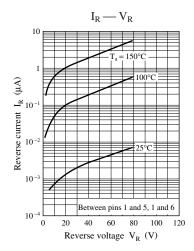
- 2. Absolute frequency of input and output is 100 MHz.
- 3. \*1: Between pins 1 and 5, Between pins 1 and 6
  - \*2: Between pins 4 and 2, Between pins 4 and 3
  - \*3: t<sub>rr</sub> measurement circuit

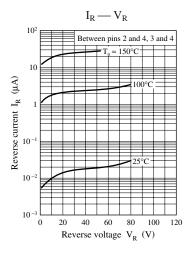


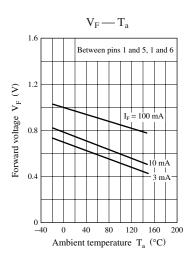
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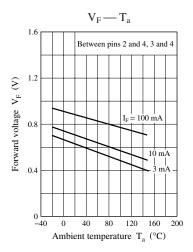


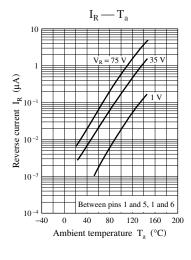


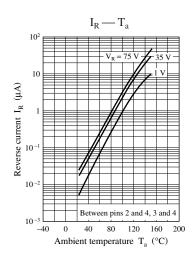


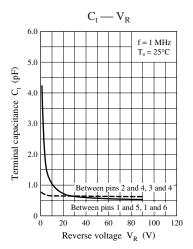




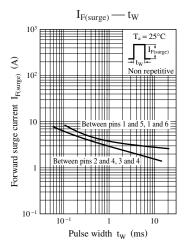








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