## **MA4X796** (MA796)

## Silicon epitaxial planar type

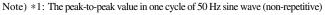
For super high speed switching For small current rectification

#### ■ Features

- Two MA3X787 (MA787) is contained in one package (of a type in the same direction)
- $I_{F(AV)} = 100$  mA rectification is possible
- Optimum for high frequency rectification because of its short reverse recovery time (t<sub>rr</sub>)
- Low forward voltage V<sub>F</sub> and good rectification efficiency
- $V_R = 50 \text{ V}$  is guaranteed
- Mini type 4-pin package

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

Parameter		Symbol	Rating	Unit
Reverse voltage (DC)		$V_R$	50	V
Repetitive peak reverse-voltage		$V_{RRM}$	50	V
Peak forward	Single	$I_{FM}$	300	mA
current	Double *2		200	
Average forward	Single	$I_{F(AV)}$	100	mA
current	Double *2		70	
Non-repetitive peak forward- surge-current *1		$I_{FSM}$	1	A
Junction temperature		T <sub>j</sub>	125	°C
Storage temperature		$T_{stg}$	-55 to +125	°C



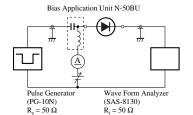
\*2: Value per chip

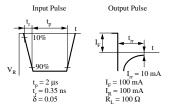
### ■ Electrical Characteristics $T_a = 25$ °C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	$I_R$	$V_R = 50 \text{ V}$			30	μΑ
Forward voltage (DC)	V <sub>F</sub>	$I_F = 100 \text{ mA}$			0.55	V
Terminal capacitance	C <sub>t</sub>	$V_R = 0 \text{ V, } f = 1 \text{ MHz}$		25		pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = I_R = 100 \text{ mA}$		3		ns
		$I_{rr} = 10 \text{ mA}, R_{L} = 100 \Omega$				

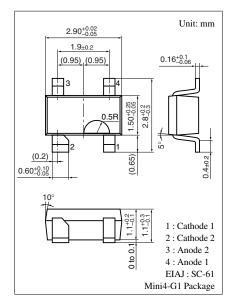
Note) 1. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

2. Rated input/output frequency: 200 MHz 3. \*: t<sub>rr</sub> measuring instrument



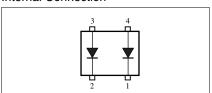


Note) The part number in the parenthesis shows conventional part number.

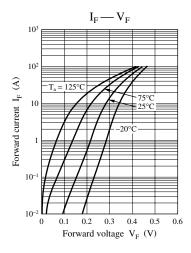


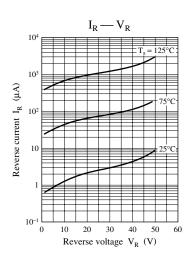
Marking Symbol: M4B

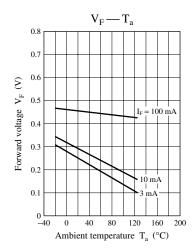
#### Internal Connection

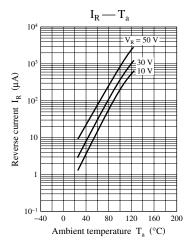


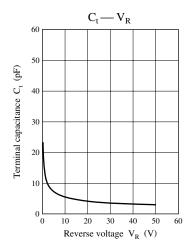
MA4X796 Panasonic

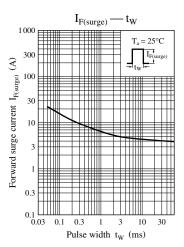












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