# **MA3X791** (MA791)

## Silicon epitaxial planar type

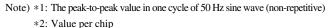
For super high speed switching For small current rectification

#### Features

- Two MA3X786 (MA786) is contained in one package (series connection)
- $I_{F(AV)} = 100$  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
- Mini type 3-pin package

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

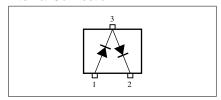
| Parameter  |           | Symbol             | Rating      | Unit |
|--|-----------|--------------------|-------------|------|
| Reverse voltage (DC)                             |           | $V_R$              | 30          | V    |
| Repetitive peak reverse-voltage                  |           | $V_{RRM}$          | 30          | V    |
| Peak forward                                     | Single    | $I_{FM}$           | 300         | mA   |
| current  | Series *2 |                    | 200         |      |
| Average forwar                                   | Single    | I <sub>F(AV)</sub> | 100         | mA   |
| current  | Series *2 |                    | 70          |      |
| Non-repetitive peak forward-<br>surge-current *1 |           | $I_{FSM}$          | 1           | A    |
| Junction temperature                             |           | T <sub>j</sub>     | 125         | °C   |
| Storage temperature                              |           | $T_{stg}$          | -55 to +125 | °C   |



# Unit: mm 1.50+0.25 (0.95) (0.95) 1.9±0.1 2.90 +0.20 1: Anode 1 2: Cathode 2 3: Cathode 1 Anode 2 EIAJ: SC-59 Mini3-G1 Package

#### Marking Symbol: M4A

#### Internal Connection



1

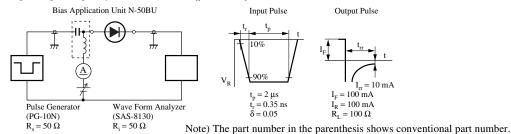
### ■ Electrical Characteristics $T_a = 25$ °C

Publication date: February 2002

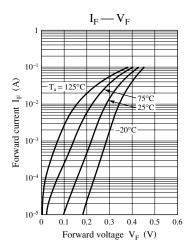
| Parameter               | Symbol          | Conditions                                 | Min | Тур | Max  | Unit |
|-------------------------|-----------------|--|-----|-----|------|------|
| Reverse current (DC)    | $I_R$           | $V_R = 30 \text{ V}$                       |     |     | 15   | μΑ   |
| Forward voltage (DC)    | V <sub>F</sub>  | $I_F = 100 \text{ mA}$                     |     |     | 0.55 | V    |
| Terminal capacitance    | C <sub>t</sub>  | $V_R = 0 \text{ V, f} = 1 \text{ MHz}$     |     | 20  |      | pF   |
| Reverse recovery time * | t <sub>rr</sub> | $I_F = I_R = 100 \text{ mA}$               |     | 2   |      | ns   |
|                         |                 | $I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$ |     |     |      |      |

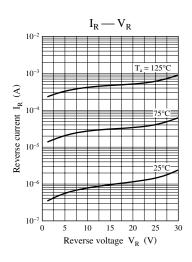
Note) 1. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

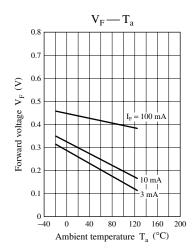
2. Rated input/output frequency: 250 MHz 3. \*: t<sub>rr</sub> measuring instrument

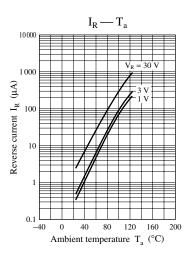


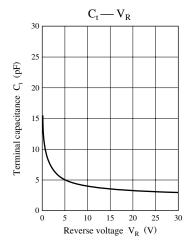
MA3X791 Panasonic

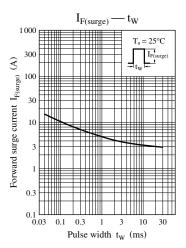












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