# **MA4X726** (MA726)

## Silicon epitaxial planar type

For super high speed switching For small current rectification

### ■ Features

- Two isolated elements are contained in one package, allowing high-density mounting
- Two MA3X721 (MA721) is contained in one package (two diodes in a different direction)
- $I_{F(AV)} = 200$  mA rectification is possible
- Mini type 4-pin package

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

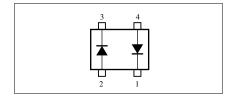
| Parameter                       |           | Symbol      | Rating      | Unit |
|---------------------------------|-----------|-------------|-------------|------|
| Reverse voltage (DC)            |           | $V_R$       | 30          | V    |
| Repetitive peak reverse-voltage |           | $V_{RRM}$   | 30          | V    |
| Peak forward                    | Single    | $I_{FM}$    | 300         | mA   |
| current                         | Double *1 |             | 225         |      |
| Average forward                 | Single    | $I_{F(AV)}$ | 200         | mA   |
| current                         | Double *1 |             | 150         |      |
| Non-repetitive peak             | Single    | $I_{FSM}$   | 1           | A    |
| forward-surge-current *2        | Double *1 |             | 0.75        |      |
| Junction temperature            |           | $T_{j}$     | 150         | °C   |
| Storage temperature             |           | $T_{stg}$   | -55 to +150 | °C   |

Note) \*1: Value per chip

# 2.90<sup>+0.02</sup> Unit: mm 2.90<sup>+0.02</sup> 0.16<sup>+0.1</sup> 0.16<sup>+0.1</sup> 0.16<sup>+0.1</sup> 0.16<sup>+0.1</sup> 0.16<sup>+0.1</sup> 0.16<sup>+0.1</sup> 0.16<sup>+0.1</sup> 0.16<sup>+0.1</sup> 0.10<sup>+0.1</sup> 0.10<sup>+0.1</sup> 0.10<sup>+0.1</sup> 0.10<sup>+0.1</sup> 1: Cathode 1 2: Anode 2 4: Anode 1 EIAJ: SC-61 Mini4-G1 Package

Marking Symbol: M1O

## Internal Connection



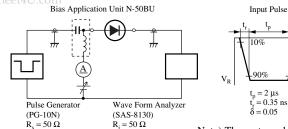
## ■ Electrical Characteristics $T_a = 25$ °C

| Parameter               | Symbol          | Conditions                                   | Min | Тур | Max  | Unit |
|-------------------------|-----------------|--|-----|-----|------|------|
| Reverse current (DC)    | $I_R$           | $V_R = 30 \text{ V}$                         |     |     | 50   | μΑ   |
| Forward voltage (DC)    | V <sub>F</sub>  | $I_F = 200 \text{ mA}$                       |     |     | 0.55 | V    |
| Terminal capacitance    | C <sub>t</sub>  | $V_R = 0 V, f = 1 MHz$                       |     | 30  |      | pF   |
| Reverse recovery time * | t <sub>rr</sub> | $I_F = I_R = 100 \text{ mA}$                 |     | 3.0 |      | 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: 1 GHz

3. \*:  $t_{rr}$  measuring instrument



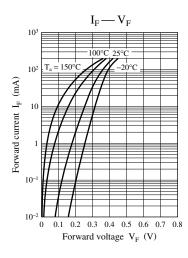
Note) The part number in the parenthesis shows conventional part number.

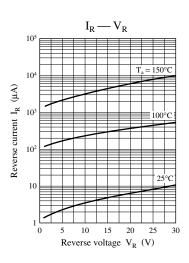
= 100 mA

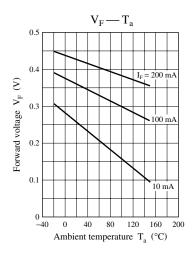
= 100 mA

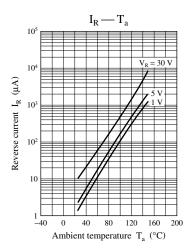
Output Pulse

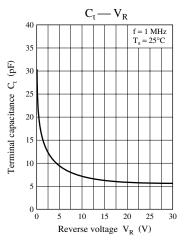
<sup>\*2:</sup> The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)











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