Unit: mm

0.16+0.10

# MA3X720 (MA720)

### Silicon epitaxial planar type

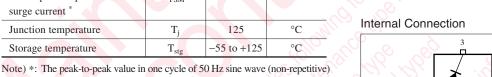
For high frequency rectification

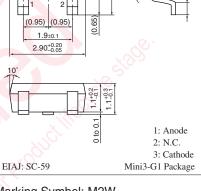
#### Features

- Forward current (Average)  $I_{F(AV)} = 500$  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

| Parameter                                   | Symbol             | Rating      | Unit |  |  |  |
|---|--------------------|-------------|------|--|--|--|
| Reverse voltage                             | V <sub>R</sub>     | 40          | V    |  |  |  |
| Maximum peak reverse voltage                | V <sub>RM</sub>    | 40          | V    |  |  |  |
| Forward current (Average)                   | I <sub>F(AV)</sub> | 500         | mA   |  |  |  |
| Non-repetitive peak forward surge current * | I <sub>FSM</sub>   | 2           | A    |  |  |  |
| Junction temperature                        | Tj                 | 125         | °C   |  |  |  |
| Storage temperature                         | T <sub>stg</sub>   | -55 to +125 | °C   |  |  |  |

#### Absolute Maximum Ratings $T_2 = 25^{\circ}C$

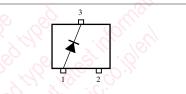




#### Marking Symbol: M2W

0.40+0.10

522 50+0



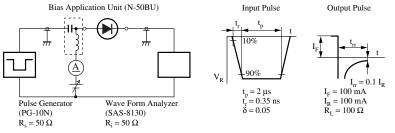
#### Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

| Parameter               | Symbol          | Conditions                               | Min  | Тур | Max  | Unit |
|-------------------------|-----------------|--|------|-----|------|------|
| Forward voltage         | VF              | $I_F = 500 \text{ mA}$                   | 2    |     | 0.55 | V    |
| Reverse current         | I <sub>R</sub>  | V <sub>R</sub> = 35 V                    | N. N |     | 100  | μΑ   |
| Terminal capacitance    | Ct              | $V_R = 0 V, f = 1 MHz$                   |      | 60  |      | pF   |
| Reverse recovery time * | t <sub>rr</sub> | $I_{\rm F} = I_{\rm R} = 100 \text{ mA}$ |      | 5   |      | ns   |
|                         |                 | $I_{rr} = 0.1 I_R, R_L = 100 \Omega$     |      |     |      |      |

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

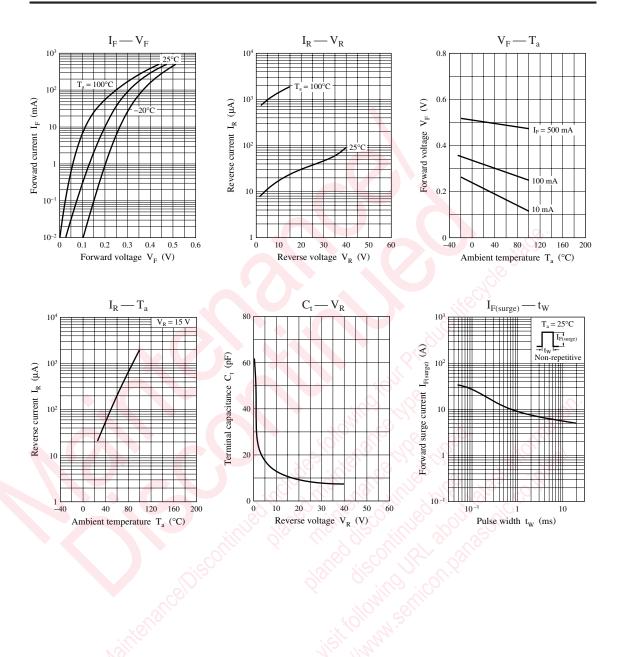
2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

- 3. Absolute frequency of input and output is 400 MHz.
- 4. \*: trr measurement circuit



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

### **Panasonic**



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