

**MA3X721D, MA3X721E** (MA721WA, MA721WK)

## Silicon epitaxial planar type

For super high speed switching

For small current rectification

## ■ Features

- Two MA3X721 (MA721) is contained in one package
- $I_{F(AV)} = 200$  mA (per single diode) rectification is possible
- Mini type 3-pin package

■ Absolute Maximum Ratings  $T_a = 25^\circ\text{C}$ 

| Parameter                                    | Symbol    | Rating      | Unit             |
|--|-----------|-------------|------------------|
| Reverse voltage (DC)                         | $V_R$     | 30          | V                |
| Repetitive peak reverse-voltage              | $V_{RRM}$ | 30          | V                |
| Peak forward current                         | Single    | 300         | mA               |
|  | Double *1 |             |                  |
| Average forward current                      | Single    | 200         | mA               |
|  | Double *1 |             |                  |
| Non-repetitive peak forward-surge-current *2 | Single    | 1           | A                |
|  | Double *1 |             |                  |
| Junction temperature                         | $T_j$     | 150         | $^\circ\text{C}$ |
| Storage temperature                          | $T_{stg}$ | -55 to +150 | $^\circ\text{C}$ |

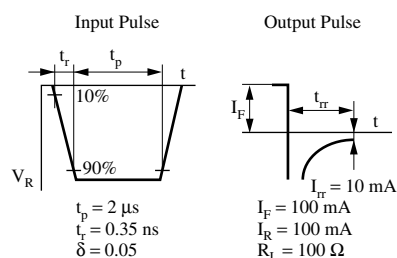
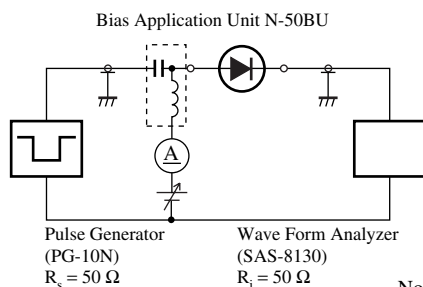
Note) \*1: Value per chip

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

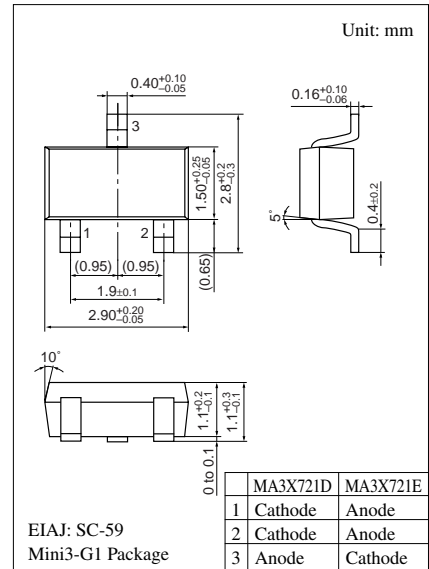
■ Electrical Characteristics  $T_a = 25^\circ\text{C}$ 

| Parameter               | Symbol   | Conditions   | Min | Typ | Max  | Unit          |
|-------------------------|----------|--|-----|-----|------|---------------|
| Reverse current (DC)    | $I_R$    | $V_R = 30$ V   |     |     | 50   | $\mu\text{A}$ |
| Forward voltage (DC)    | $V_F$    | $I_F = 200$ mA   |     |     | 0.55 | V             |
| Terminal capacitance    | $C_t$    | $V_R = 0$ V, $f = 1$ MHz                                       |     | 30  |      | pF            |
| Reverse recovery time * | $t_{rr}$ | $I_F = I_R = 100$ mA<br>$I_{tr} = 10$ mA, $R_L = 100$ $\Omega$ |     | 3   |      | ns            |

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

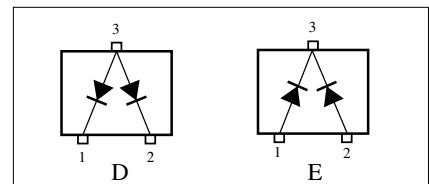
Note) The part number in the parenthesis shows conventional part number.

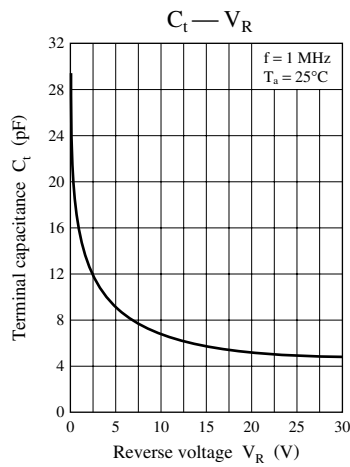
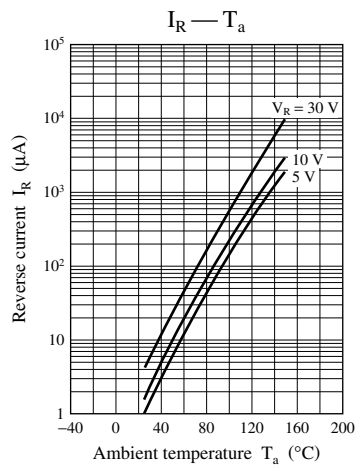
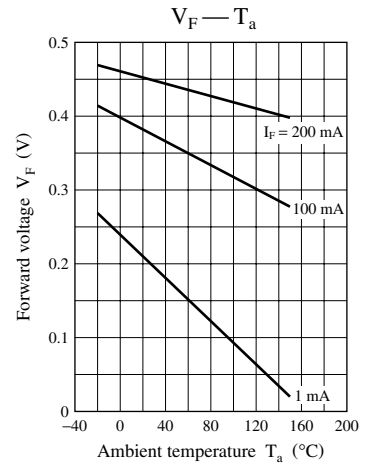
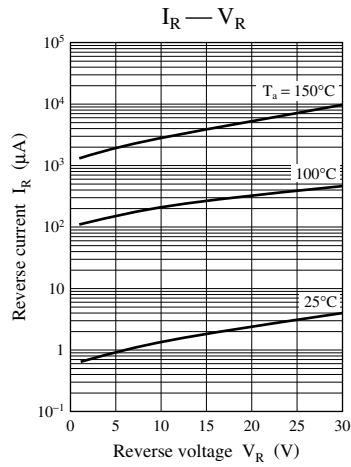
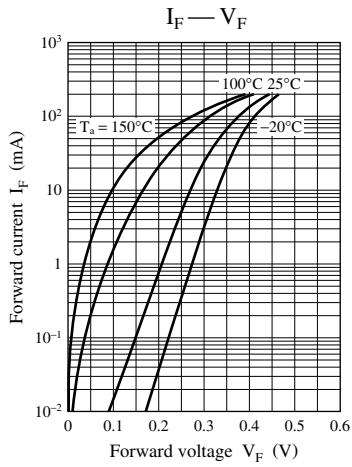


## Marking Symbol

- MA3X721D: M3H • MA3X721E: M3F

## Internal Connection





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