

MA4X724 (MA724)

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 (of a type in the same direction)
- Forward current (Average) $I_{F(AV)} = 200$ mA rectification is possible

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

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

Note) *1: Value of each diode in double diodes used.

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

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

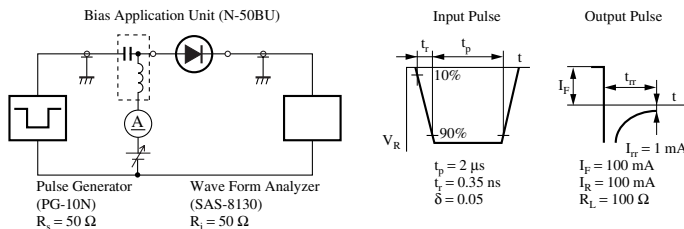
| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|-------------------------|----------|--|-----|-----|------|---------------|
| Forward voltage | V_F | $I_F = 200$ mA | | | 0.55 | V |
| Reverse current | I_R | $V_R = 30$ V | | | 50 | μA |
| Terminal capacitance | C_t | $V_R = 0$ V, $f = 1$ MHz | | 30 | | pF |
| Reverse recovery time * | t_{rr} | $I_F = I_R = 100$ mA $I_{tr} = 10$ mA, $R_L = 100$ Ω | | 3.0 | | ns |

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

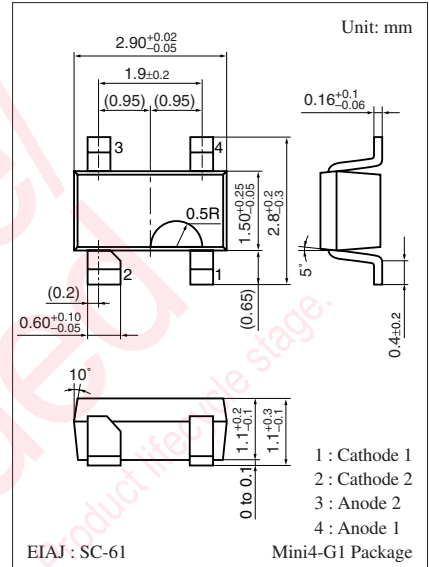
2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

3. Absolute frequency of input and output is 1 GHz.

4. *: t_{rr} measurement circuit

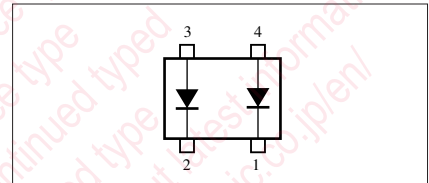


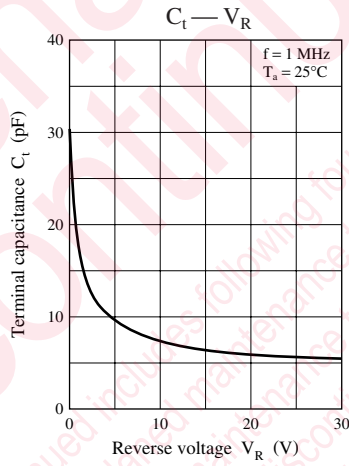
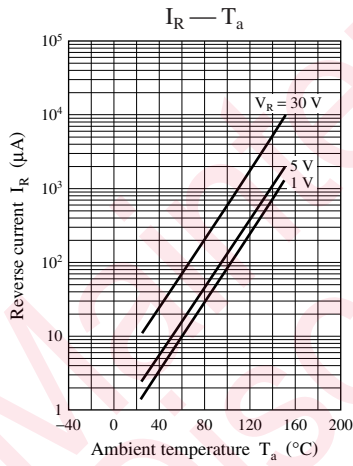
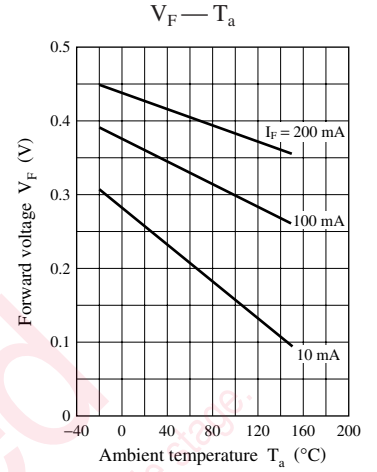
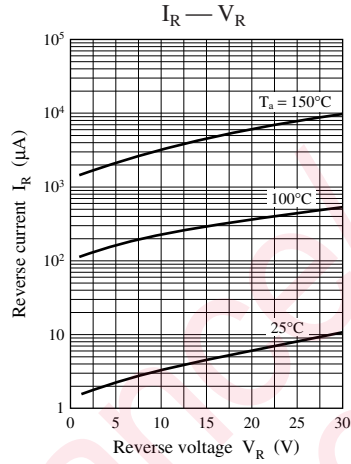
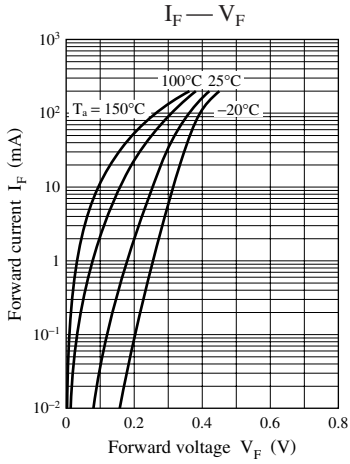
Note) The part number in the parenthesis shows conventional part number.



Marking Symbol: M1T

Internal Connection





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