Unit: mm

# **MA3X721** (MA721)

### Silicon epitaxial planar type

For super high speed switching For small current rectification

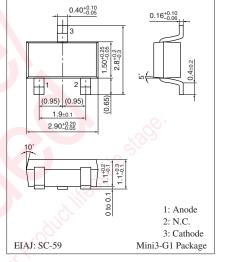
#### Features

• Forward current (Average)  $I_{F(AV)} = 200$  mA rectification is possible

Parameter	Symbol	Rating	Unit
Reverse voltage	V <sub>R</sub>	30	v
Maximum peak reverse voltage	V <sub>RM</sub>	30	V
Forward current	I <sub>F</sub>	200	mA
Peak forward current	I <sub>FM</sub>	300	mA
Non-repetitive peak forward surge current *	I <sub>FSM</sub>	1	А
Junction temperature	Tj	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C

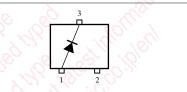
Note) \*: The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)

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



#### Marking Symbol: M1M

#### Internal Connection

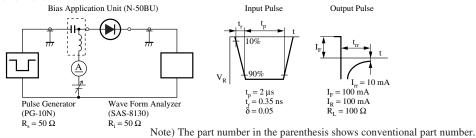


#### Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

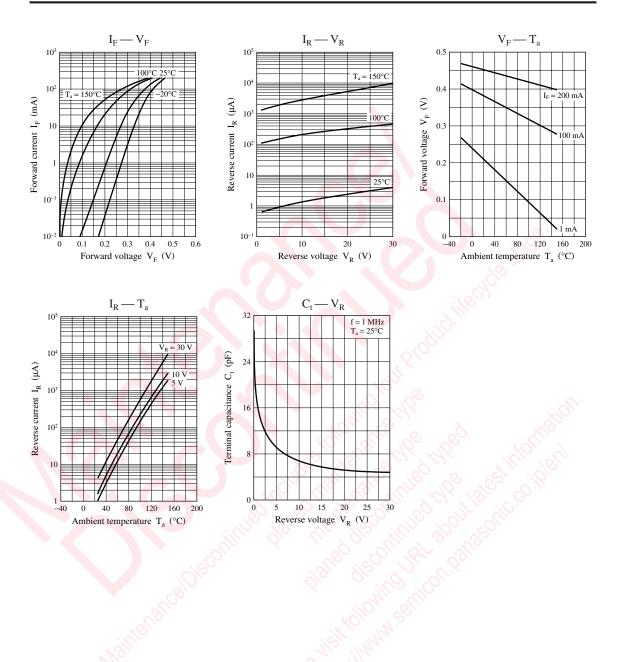
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V <sub>F</sub>	I <sub>F</sub> = 200 mA	2.2		0.55	V
Reverse current	I <sub>R</sub>	$V_R = 30 V$			50	μΑ
Terminal capacitance	Ct	$V_{R} = 0 V, f = 1 MHz$		30		pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = I_R = 100 \text{ mA}$		3.0		ns
		$I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$				

Note) 1. 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<sub>rr</sub> measurement circuit



## Panasonic



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