

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number:	MA3X72700L
Manufacturer:	Panasonic Electronic Components
Package:	TO-236-3, SC-59, SOT-23-3
Availability:	Please confirm with sales

Product Page:

<https://antrexco.com/product/details/panasonic-electronic-components/ma3x72700l.html>

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Contact Information

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Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

MA3X727 (MA727)

Silicon epitaxial planar type

For super high speed switching

For small current rectification

■ Features

- Reverse voltage $V_R = 50$ V is guaranteed
- 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	50	V
Repetitive peak reverse voltage	V_{RRM}	50	V
Peak forward current	I_{FM}	300	mA
Forward current (Average)	$I_{F(AV)}$	200	mA
Non-repetitive peak forward surge current *	I_{FSM}	1	A
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

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

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

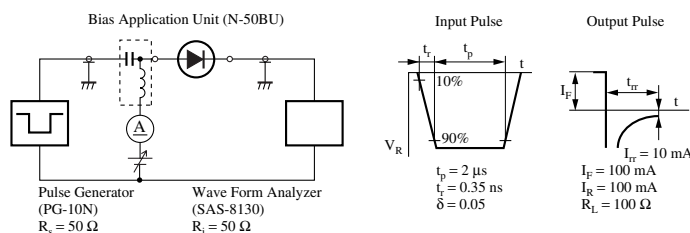
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_{F1}	$I_F = 30$ mA			0.36	V
	V_{F2}	$I_F = 200$ mA			0.55	V
Reverse current	I_R	$V_R = 50$ V			200	μA
Terminal capacitance	C_t	$V_R = 0$ V, $f = 1$ MHz		30		pF
Reverse recovery time *	t_{rr}	$I_F = I_R = 100$ mA $I_{rr} = 10$ mA, $R_L = 100$ Ω		3.0		ns

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

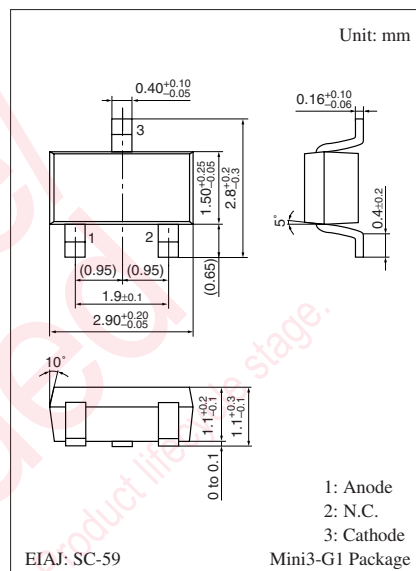
2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

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

4. *: t_{rr} measurement circuit

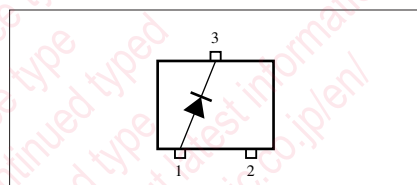


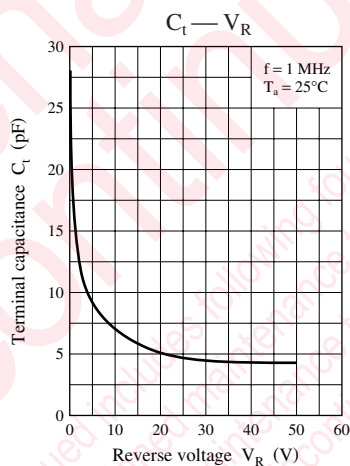
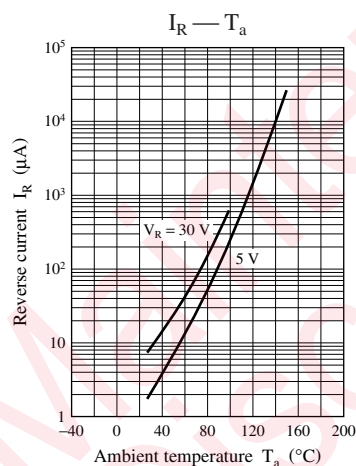
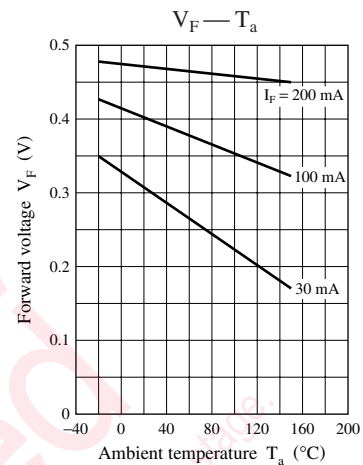
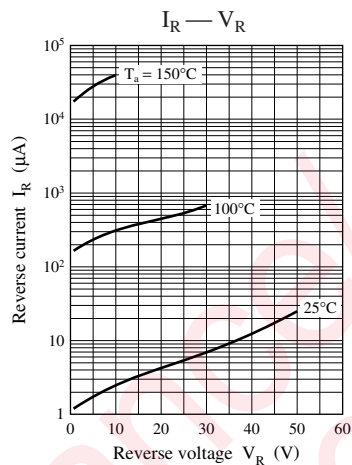
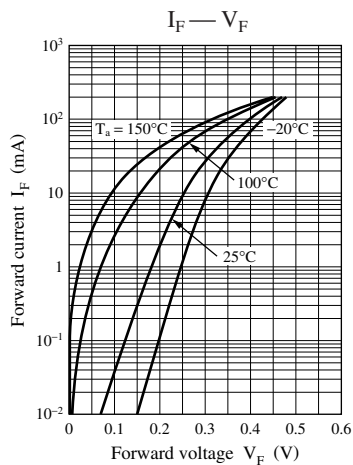
Note) The part number in the parenthesis shows conventional part number.



Marking Symbol: M1Z

Internal Connection





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