

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: MA3J70000L

Manufacturer: Panasonic Electronic Components

Package: SC-85

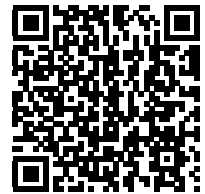
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/panasonic-electronic-components/ma3j70000l.html>

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Contact Information

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CoC / RoHS / REACH documents available on request

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Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

MA3J700 (MA10700)

Silicon epitaxial planar type

For high frequency rectification

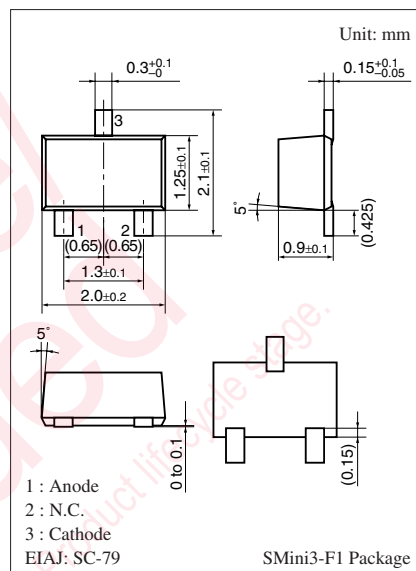
■ Features

- Forward current (Average) $I_{F(AV)} = 500 \text{ mA}$ rectification is possible
- Optimum for high frequency rectification because of its short reverse recovery time t_{rr}

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

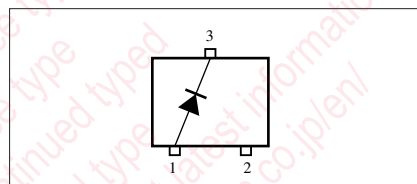
Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	40	V
Repetitive peak reverse voltage	V_{RRM}	40	V
Forward current (Average)	$I_{F(AV)}$	500	mA
Non-repetitive peak forward surge current *	I_{FSM}	2	A
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-55 to +150	°C

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



Marking Symbol: M2W

Internal Connection



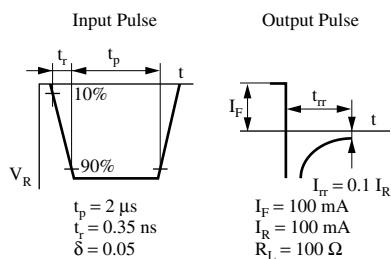
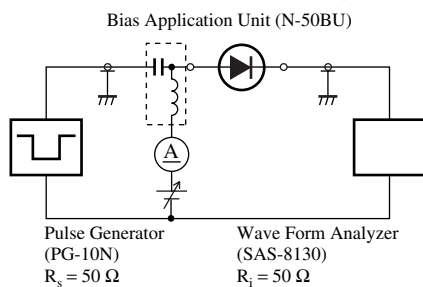
■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 500 \text{ mA}$			0.55	V
Reverse current	I_R	$V_R = 35 \text{ V}$			100	μA
Terminal capacitance	C_t	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$		60		pF
Reverse recovery time *	t_{rr}	$I_F = I_R = 100 \text{ mA}$ $I_{rr} = 0.1 I_R, R_L = 100 \Omega$		5		ns

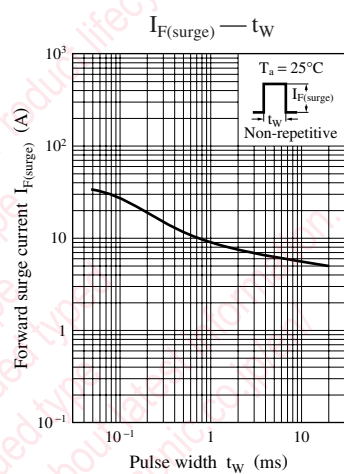
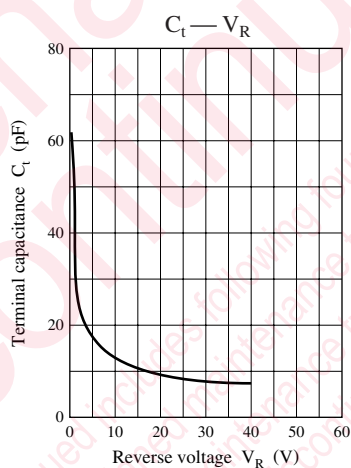
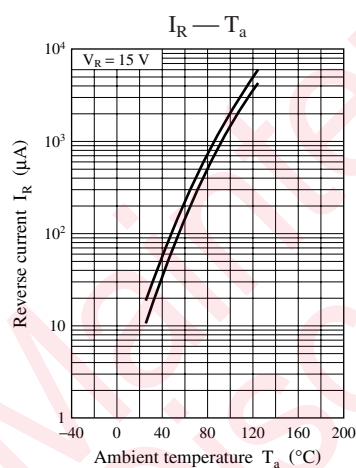
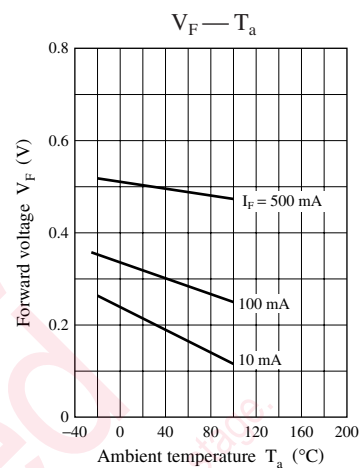
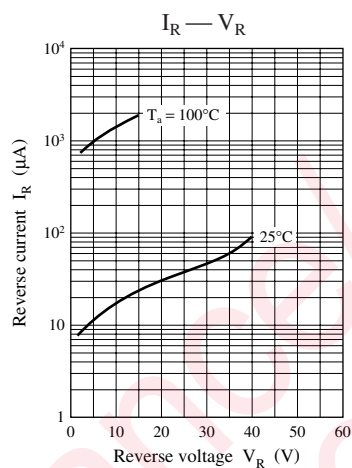
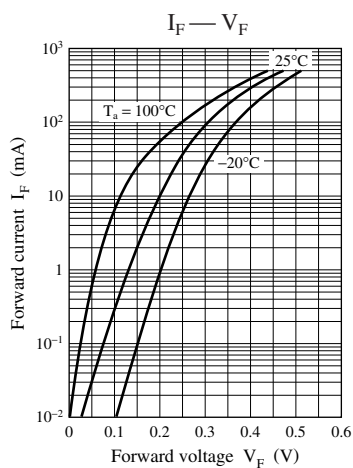
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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 400 MHz.
- 4.*: t_m measurement circuit

4.*: t_{IT} measurement circuit



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



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