

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number:	MA3X78900L
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/ma3x78900l.html>

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Contact Information

Email: info@antrexco.com

WhatsApp: +86-186-8066-5326

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Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

MA3X789 (MA789)

Silicon epitaxial planar type

For super high speed switching

For small current rectification

■ Features

- Forward current (Average) $I_{F(AV)} = 500$ mA rectification is possible
- Reverse voltage $V_R = 60$ V is guaranteed

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

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	60	V
Maximum peak reverse voltage	V_{RM}	60	V
Forward current (Average)	$I_{F(AV)}$	500	mA
Non-repetitive peak forward surge current *	I_{FSM}	2	A
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

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

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

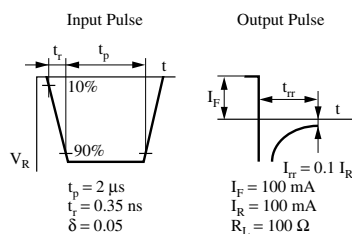
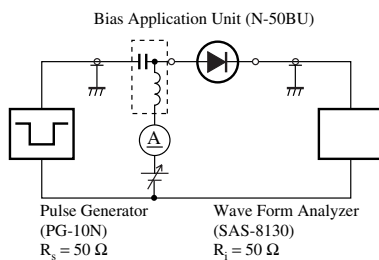
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 500$ mA			0.65	V
Reverse current	I_R	$V_R = 50$ V			100	μA
Terminal capacitance	C_t	$V_R = 0$ V, $f = 1$ MHz		60		pF
Reverse recovery time *	t_{rr}	$I_F = I_R = 100$ mA $I_{rr} = 0.1 I_R$, $R_L = 100 \Omega$		4.5		ns

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

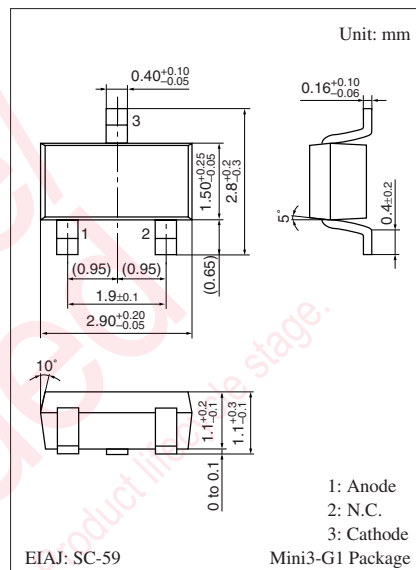
2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

3. Absolute frequency of input and output is 100 MHz.

4. *: t_{rr} measurement circuit

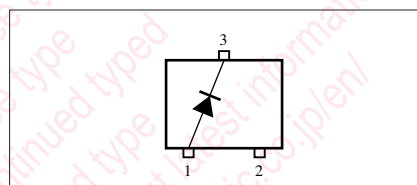


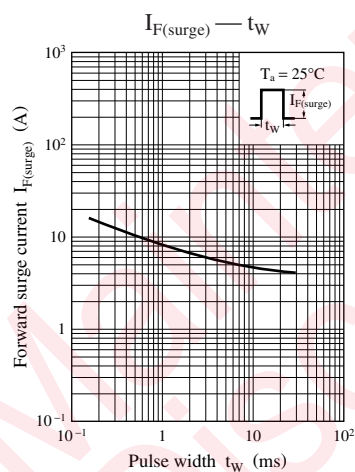
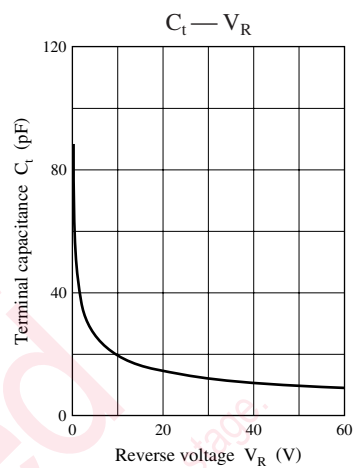
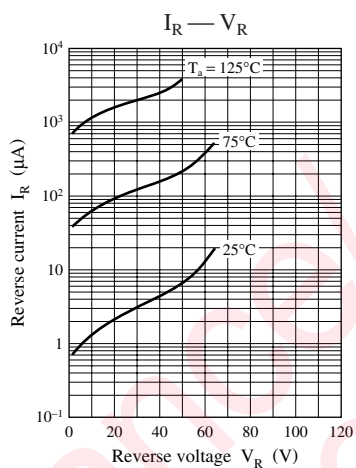
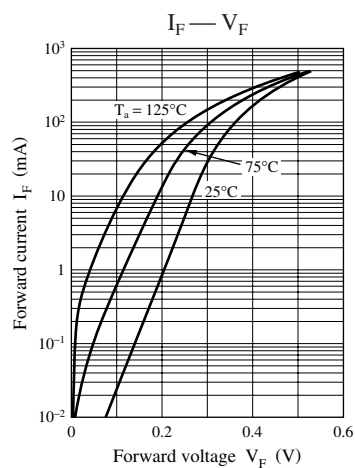
Note) The part number in the parenthesis shows conventional part number.



Marking Symbol: M3W

Internal Connection





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