

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	$^\circ\text{C}$

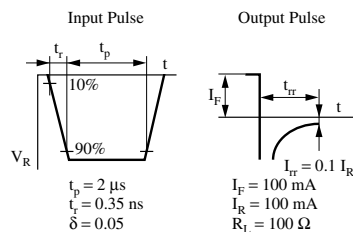
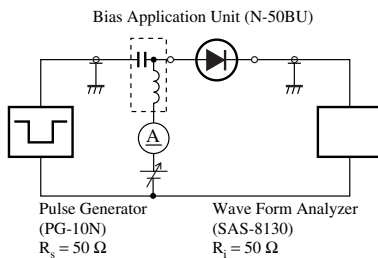
Note) *: The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)

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

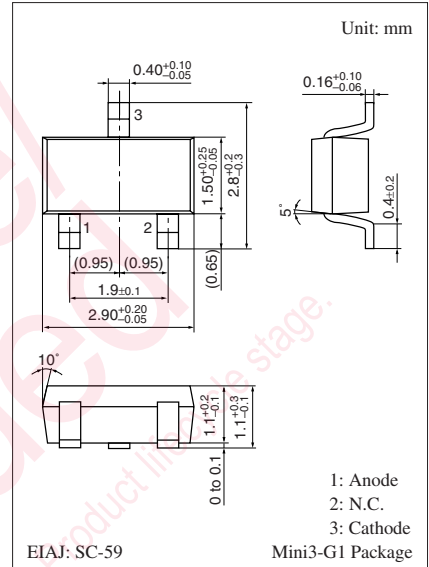
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 500$ mA			0.65	V
Reverse current	I_R	$V_R = 50$ V			100	μA
Terminal capacitance	C_t	$V_R = 0$ V, $f = 1$ MHz		60		pF
Reverse recovery time *	t_{rr}	$I_F = I_R = 100$ mA $I_{rr} = 0.1 I_R$, $R_L = 100 \Omega$		4.5		ns

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

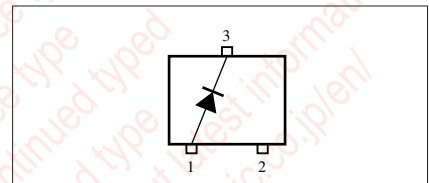


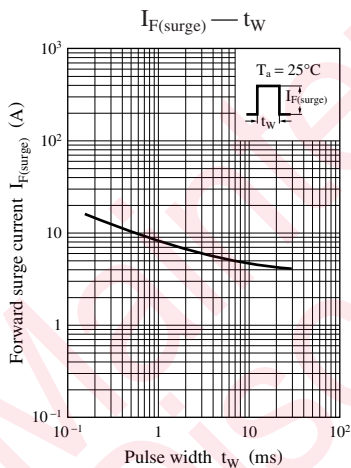
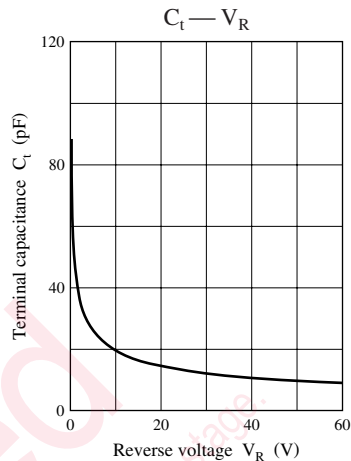
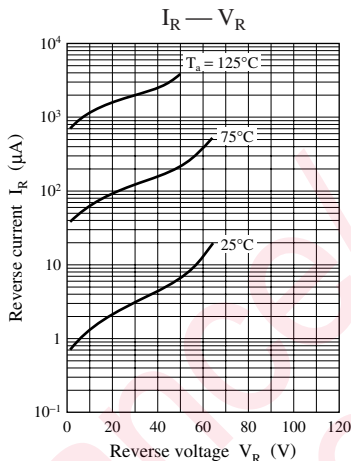
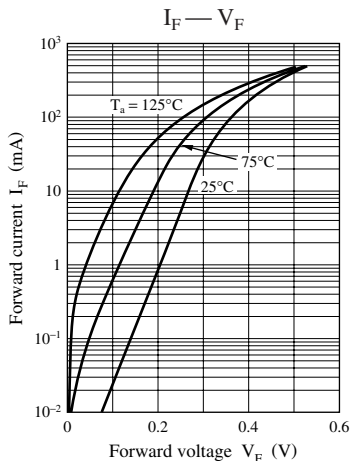
Note) The part number in the parenthesis shows conventional part number.



Marking Symbol: M3W

Internal Connection





Maintenance/Discontinued includes following four Product lifecycle stages:
 planned maintenance type
 maintenance type
 planned discontinued type
 discontinued type
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standard applications or general electronic equipment (such as office
and household appliances).

ng applications:

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reliability are required, or if the failure or malfunction of the prod-

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n the systems such as redundant design, arresting the spread of fire
al injury, fire, social damages, for example, by using the products.

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mounting or at customer's process. When using products for which
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