MA3X791 (MA791)

Silicon epitaxial planar type

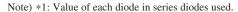
For super high speed switching For small current rectification

■ Features

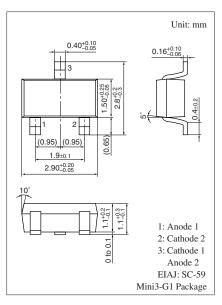
- Two MA3X786 (MA786) is contained in one package (series connection)
- Forward current $I_F = 100$ mA rectification is possible
- Optimum for high frequency rectification because of its short reverse recovery time t_{rr}
- Low forward voltage V_F and good rectification efficiency

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter		Symbol	Rating	Unit
Reverse voltage		V_R	30	V
Repetitive peak reverse voltage		V _{RRM}	30	V
Forward current	Single	I_{F}	100	mA
	Series *1		70	
Peak forward	Single	I_{FM}	300	mA
current	Series *1		200	
Non-repetitive peak forward surge current *2		I _{FSM}	1	A
Junction temperature		T _j	125	°C
Storage temperature		T _{stg}	-55 to +125	°C

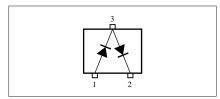


*2: The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)



Marking Symbol: M4A

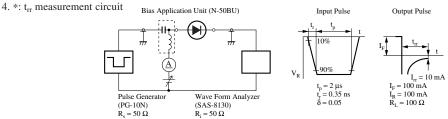
Internal Connection



■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

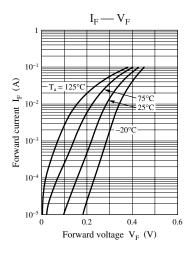
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_F = 100 \text{ mA}$			0.55	V
Reverse current	I_R	$V_R = 30 \text{ V}$			15	μΑ
Terminal capacitance	C _t	$V_R = 0 \text{ V, } f = 1 \text{ MHz}$		20		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 100 \text{ mA}$		2.0		ns
		$I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$				

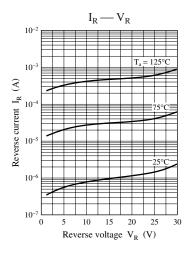
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
 - 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
 - 3. Absolute frequency of input and output is 250 MHz.

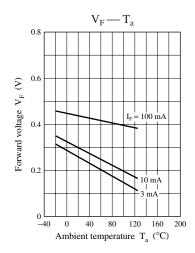


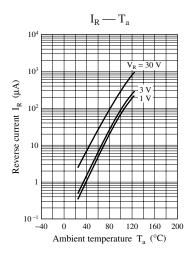
Note) The part number in the parenthesis shows conventional part number.

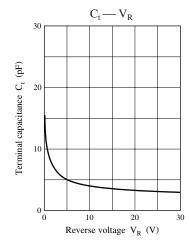
Panasonic

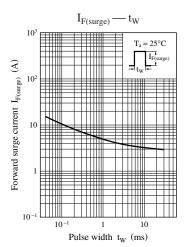












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