MA4X796 (MA796)

Silicon epitaxial planar type

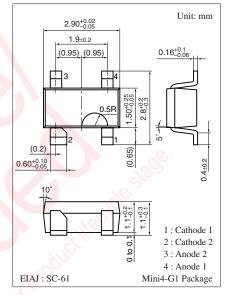
For super high speed switching For small current rectification

Features

- Two MA3X787 (MA787) is contained in one package (of a type in the same direction)
- Forward current (Average) $I_{F(AV)} = 100 \text{ mA}$ 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
- Reverse voltage $V_R = 50$ V is guaranteed

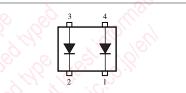
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Parameter		Symbol	Rating	Unit		
Reverse voltage		V _R	50	V		
Repetitive peak reverse voltage		V _{RRM}	50	V		
Peak forward	Single	I _{FM}	300	mA		
current	Double *1		200			
Forward current	Single	I _{F(AV)}	100	mA		
(Average)	Double *1		70	10 ¹⁰		
Non-repetitive peak forward		I _{FSM}	1	A		
surge current *2				S XO		
Junction temperature		Tj	125	°C		
Storage temperature		T _{stg}	-55 to +125	°C		

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



Marking Symbol: M4B

Internal Connection



Note) *1: Value of each diode in double diodes used.

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

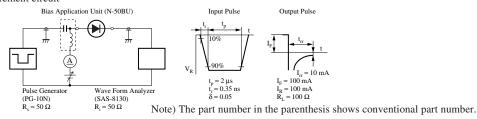
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	I _F = 100 mA			0.55	V
Reverse current	I _R	$V_R = 50 V$			30	μΑ
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$		25		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 100 \text{ mA}$		3.0		ns
		$I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$				

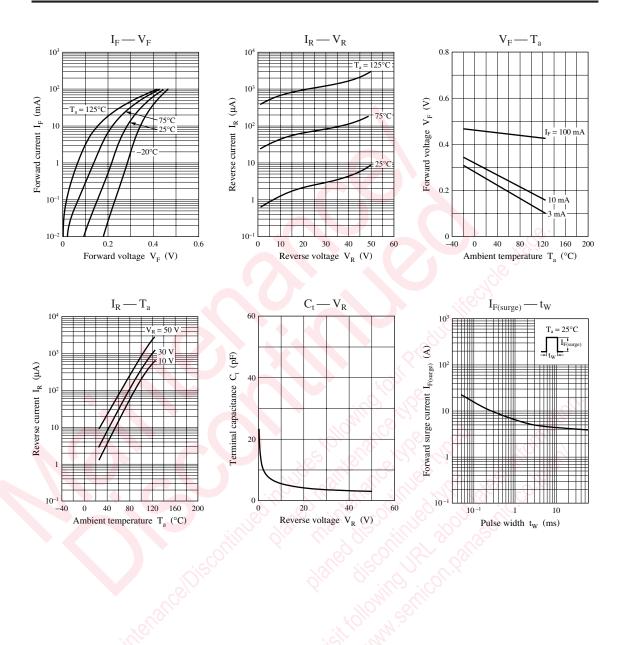
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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 200 MHz.
- 4. *: t_{rr} measurement circuit



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