imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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MA4X796 (MA796)

Silicon epitaxial planar type

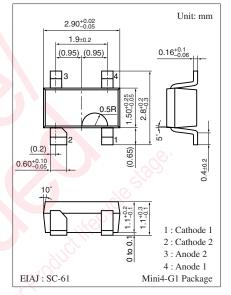
For super high speed switching For small current rectification

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

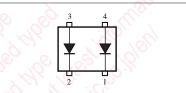
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Parameter		Symbol	Rating	Unit		
Reverse voltage		V _R	50	V		
Repetitive peak reverse voltage		V _{RRM}	50	V		
Peak forward	Single	I _{FM}	300	mA		
current	Double *1		200			
Forward current	Single	I _{F(AV)}	100	mA		
(Average)	Double *1		70	10/10		
Non-repetitive peak forward		I _{FSM}	1	A		
surge current *2				So 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)

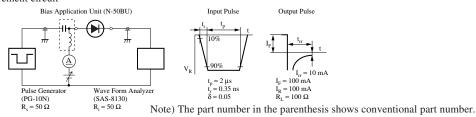
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

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
		$I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$				

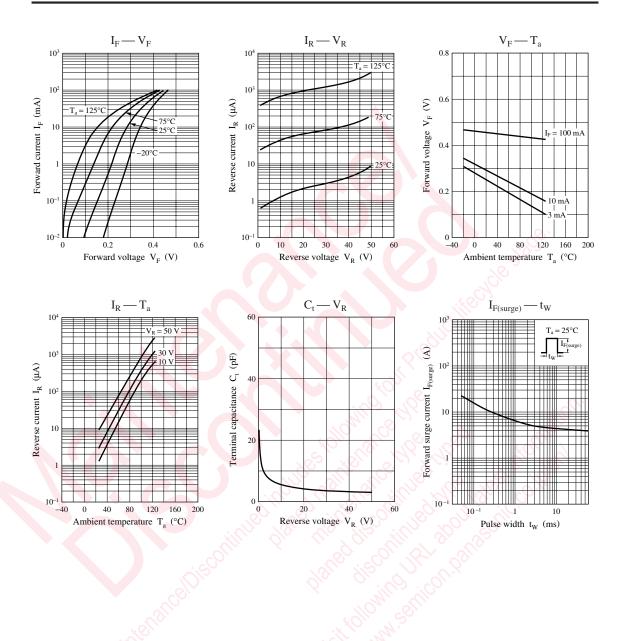
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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



Panasonic



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