MA4X796 (MA796)

Silicon epitaxial planar type

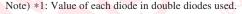
For super high speed switching For small current rectification

■ 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 $V_R = 50 \text{ V}$ is guaranteed

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

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	11011
Non-repetitive peak forward		I_{FSM}	1	A
surge current *2				(0) (0)
Junction temperature		T _j	125	°C
Storage temperature		T_{stg}	-55 to +125	°C

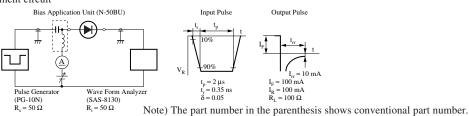


*2: The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)

■ 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	$V_R = 50 \text{ V}$			30	μΑ		
Terminal capacitance	C _t	$V_R = 0 \text{ V, f} = 1 \text{ MHz}$		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



2.90^{+0.02} Unit: mm

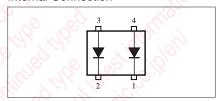
2.90^{+0.02} 0.16^{+0.1}
1.9:0.2
(0.95) (0.95) 0.5R

0.16^{+0.1}
0.60^{+0.1}
0.60^{+0.1}
0.60^{+0.1}
1: Cathode 1
2: Cathode 2
3: Anode 2
4: Anode 1
EIAJ: SC-61

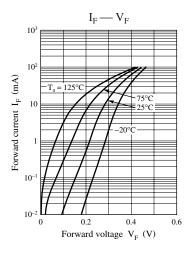
Mini4-G1 Package

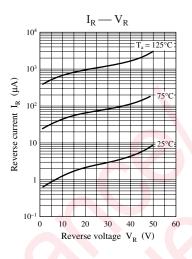
Marking Symbol: M4B

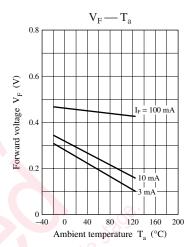
Internal Connection

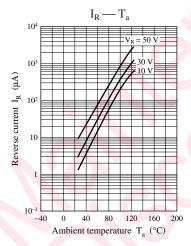


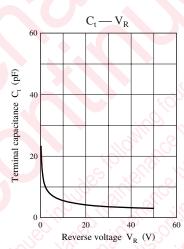
Panasonic

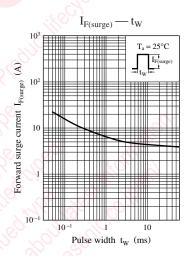












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