MA4X796 (MA796)

Silicon epitaxial planar type

For super-high speed switching circuit For small current rectification

■ Features

- Two MA3X787s in the same direction are contained in one package
- Allowing to rectify under $(I_{F(AV)} = 100 \text{ mA})$ condition
- Optimum for high-frequency rectification because of its short reverse recovery time (t_{rr})
- Low V_F (forward rise voltage), with high rectification efficiency
- Reverse voltage V_R (DC value) = 50 V guaranteed

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter		Symbol	Rating	Unit
Reverse voltage (DC)		V_R	50	V
Repetitive peak reverse voltage		V_{RRM}	50	V
Peak forward	Single	I_{FM}	300	mA
current	Double*2		200	
Average forward	Single	$I_{F(AV)}$	100	mA
current	Double*2		70	
Non-repetitive peak forward surge current*1		I_{FSM}	1	A
Junction temperature		T _j	125	°C
Storage temperature		T_{stg}	-55 to +125	°C

Note) *1: The peak-to-peak value in one cycle of 50 Hz sine-wave (non-repetitive)

*2: Value per chip

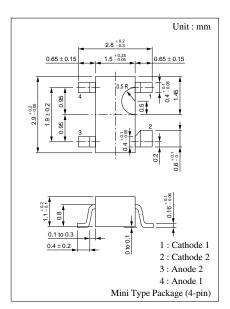
■ Electrical Characteristics $T_a = 25$ °C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I_R	$V_R = 50 \text{ V}$			30	μΑ
Forward voltage (DC)	V _F	$I_F = 100 \text{ mA}$			0.55	V
Terminal capacitance	C _t	$V_R = 0 V, f = 1 MHz$		25		pF
Reverse recovery time*	t _{rr}	$I_F = I_R = 100 \text{ mA}$		3		ns
		$I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$				

Note) 1. Schottky barrier diode 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.

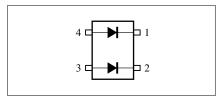
2. Rated input/output frequency: 200 MHz

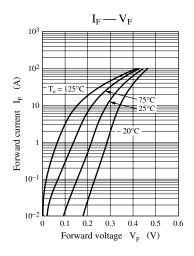
Note) The part number in the parenthesis shows conventional part number.

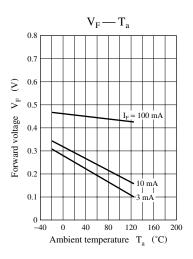


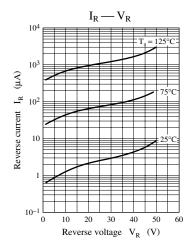
Marking Symbol: M4B

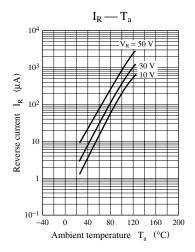
Internal Connection

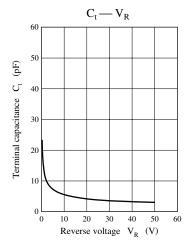


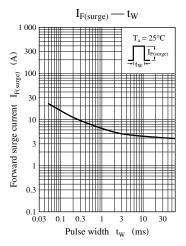












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