MA3X787 (MA787)

Silicon epitaxial planar type

For super high speed switching For small current rectification

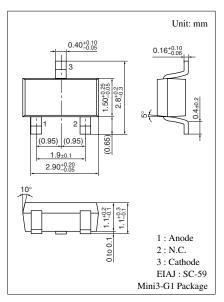
■ Features

- $I_{F(AV)} = 100$ 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
- $V_R = 50 \text{ V}$ is guaranteed
- Mini type 3-pin package

■ Absolute Maximum Ratings $T_a = 25$ °C

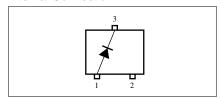
Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	50	V
Repetitive peak reverse-voltage	V _{RRM}	50	V
Peak forward current	I_{FM}	300	mA
Average forward current	I _{F(AV)}	100	mA
Non-repetitive peak forward- surge-current *	I_{FSM}	1	A
Junction temperature	T _j	125	°C
Storage temperature	T_{stg}	-55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

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



Marking Symbol: M3U

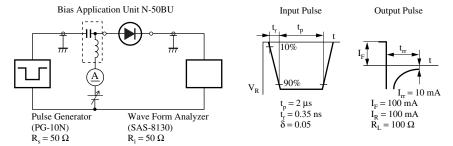
Internal Connection



■ Electrical Characteristics $T_a = 25$ °C

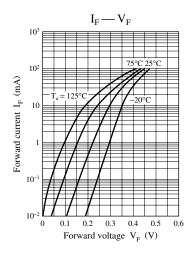
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I_R	$V_R = 50 \text{ V}$			30	μΑ
Forward voltage (DC)	V_F	$I_F = 100 \text{ mA}$			0.55	V
Terminal capacitance	C _t	$V_R = 0 \text{ V, } f = 1 \text{ MHz}$		25		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 100 \text{ mA}$		3		ns
		$I_{rr}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

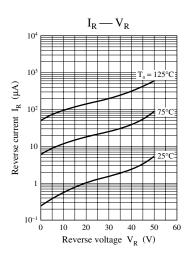
- Note) 1. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
 - 2. Rated input/output frequency: 200 MHz 3. *: t_{rr} measuring instrument

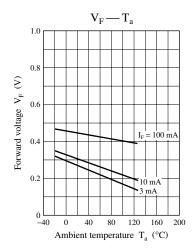


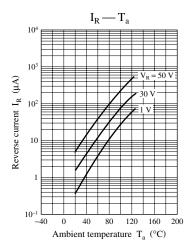
Note) The part number in the parenthesis shows conventional part number.

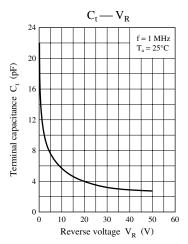
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