## **MA2H736**

## Silicon epitaxial planar type

For high frequency rectification

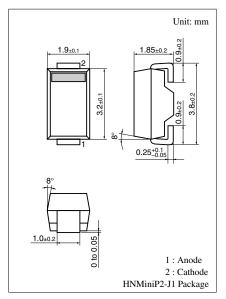
#### ■ Features

- $I_{F(AV)} = 1$  A rectification is possible
- Half New Mini-power package

### ■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	$V_R$	40	V
Repetitive peak reverse-voltage	$V_{RRM}$	40	V
Average forward current	I <sub>F(AV)</sub>	1	A
Non-repetitive peak forward- surge-current *	$I_{FSM}$	30	A
Junction temperature	T <sub>j</sub>	125	°C
Storage temperature	$T_{stg}$	-40 to +125	°C

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



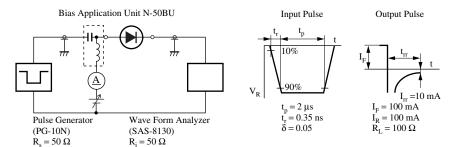
Marking Symbol: B

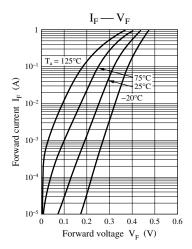
#### ■ Electrical Characteristics $T_a = 25$ °C

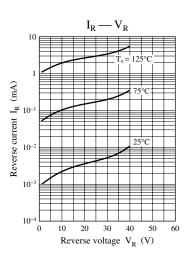
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	$I_R$	$V_R = 50 \text{ V}$			2	mA
Forward voltage (DC)	V <sub>F</sub>	$I_F = 1 A$			0.55	V
Terminal capacitance	C <sub>t</sub>	$V_R = 10 \text{ V}, \text{ f} = 1 \text{ MHz}$		50		pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = I_R = 100 \text{ mA}$			30	ns
		$I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$				

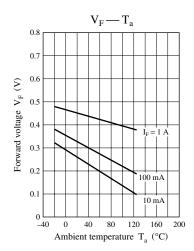
Note) 1. Rated input/output frequency: 20 MHz

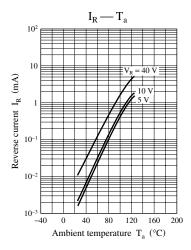
2. \*: t<sub>rr</sub> measuring instrument

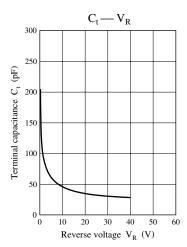












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