MA3J700 (MA10700)

Silicon epitaxial planar type

For high frequency rectification

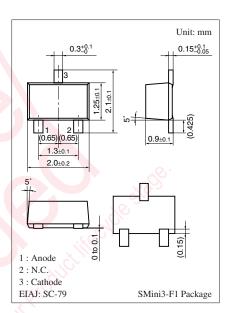
■ Features

- Forward current (Average) I_{F(AV)} = 500 mA rectification is possible
- Optimum for high frequency rectification because of its short reverse recovery time t_{rr}

■ Absolute Maximum Ratings $T_a = 25$ °C

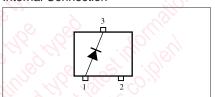
Parameter	Symbol	Rating	Unit
Reverse voltage	V _R	40	V
Repetitive peak reverse voltage	V_{RRM}	40	V
Forward current (Average)	I _{F(AV)}	500	mA
Non-repetitive peak forward surge current *	I _{FSM}	2	A
Junction temperature	T_{j}	125	°C
Storage temperature	T_{stg}	-55 to +150	°C

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



Marking Symbol: M2W

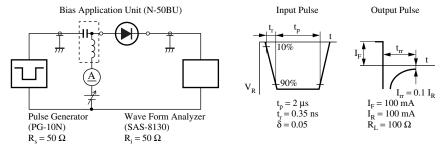
Internal Connection



■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

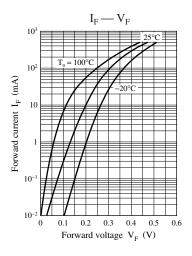
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{\rm F}$	I _F = 500 mA	10)		0.55	V
Reverse current	I_R	V _R = 35 V			100	μΑ
Terminal capacitance	C _t	$V_R = 0 V, f = 1 MHz$		60		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 100 \text{ mA}$		5		ns
		$I_{rr} = 0.1 I_R, R_L = 100 \Omega$				

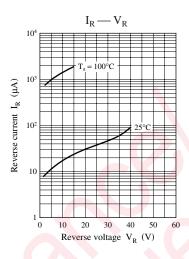
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
 - 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
 - 3. Absolute frequency of input and output is 400 MHz.
- 4.*: t_{rr} measurement circuit

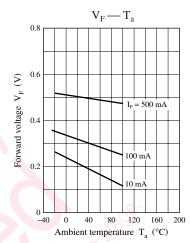


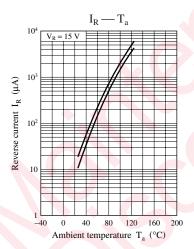
Note) The part number in the parenthesis shows conventional part number.

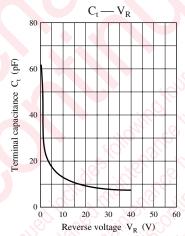
Panasonic

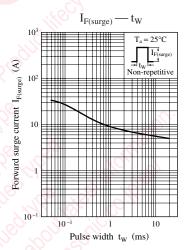












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