# MA3J702 (MA10702)

### Silicon epitaxial planar type

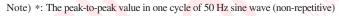
For high frequency rectification

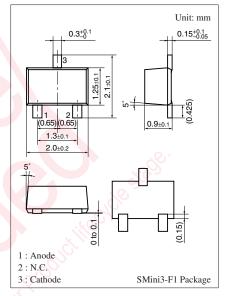
#### Features

- Forward current (Average)  $I_{F(AV)} = 500 \text{ mA}$  rectification is possible
- Small reverse current  $I_R$  (About 1/10 of  $I_R$  of the ordinary products)

Absolute Maximum Ratings $T_a = 25^{\circ}C$							
Parameter	Symbol	Rating	Unit				
Reverse voltage	V <sub>R</sub>	20	v				
Repetitive peak reverse voltage	V <sub>RRM</sub>	20	V				
Forward current (Average)	I <sub>F(AV)</sub>	500	mA				
Non-repetitive peak forward surge current *	I <sub>FSM</sub>	3	А				
Junction temperature	Tj	125	°C				
Storage temperature	T <sub>stg</sub>	-55 to +125	°C				

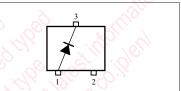
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#### Marking Symbol: M4R

#### Internal Connection

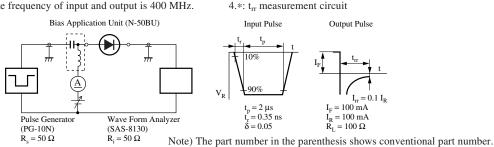


#### Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V <sub>F1</sub>	$I_{\rm F} = 10 \text{ mA}$	3	0.30	0.40	V
	V <sub>F2</sub>	I <sub>F</sub> = 500 mA	0.X	0.50	0.55	
Reverse current	I <sub>R1</sub>	$V_R = 5 V$			1	μΑ
	I <sub>R2</sub>	$V_R = 10 V$			10	
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$		60		pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = I_R = 100 \text{ mA}$		5		ns
Mo		$I_{rr}=0.1~I_R,R_L=100~\Omega$				

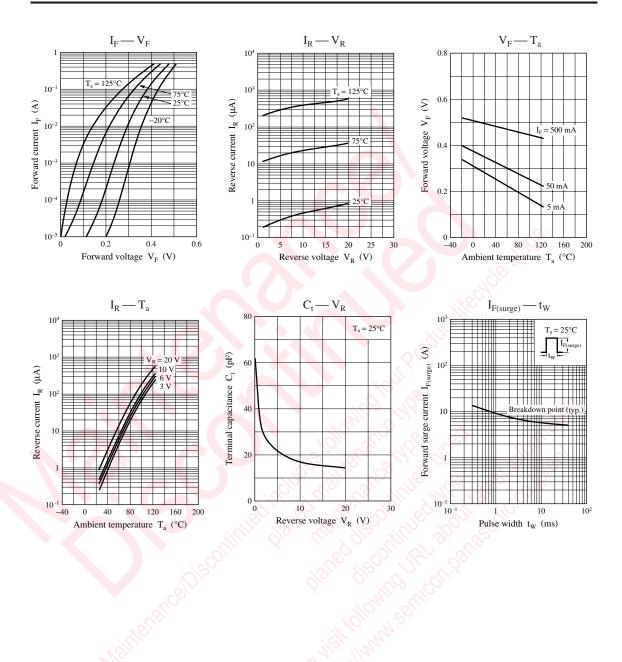
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes. 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

3. Absolute frequency of input and output is 400 MHz.



SKH00053BED

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