## **MA4SD01**

#### Silicon epitaxial planar type

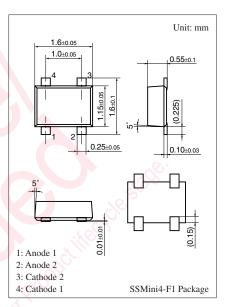
For high speed switching

#### ■ Features

- Two isolated elements are contained in one package, allowing high-density mounting
- Two MA3S781 (MA781) is contained in one package (of a type in the same direction)

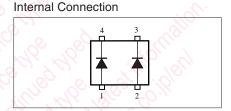
#### Absolute Maximum Ratings $T_a = 25^{\circ}C$

Parameter		Symbol	Rating	Unit		
Reverse voltage		$V_R$	30	V		
Maximum peak reverse voltage		V <sub>RM</sub>	30	V		
Forward current	Single	$I_{\mathrm{F}}$	30	mA		
	Double		20			
Peak forward current	Single	$I_{FM}$	150	mA		
	Double		110			
Junction temperature		T <sub>j</sub>	125	°C O		
Storage temperature		$T_{stg}$	-55 to +125	°C		
5 . 6						



### Marking Symbol: M1N

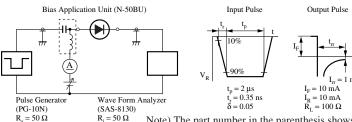
Note) The part number in the parenthesis shows conventional part number.



#### ■ Electrical Characteristics $T_a = 25$ °C $\pm 3$ °C

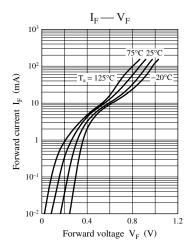
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{F1}$	$I_F = 1 \text{ mA}$	~9/J		0.35	V
	$V_{F2}$	$I_F = 30 \text{ mA}$	1.7		0.9	
Reverse current	$I_R$	$V_R = 30 \text{ V}$			0.5	μΑ
Terminal capacitance	C <sub>t</sub>	$V_R = 1 \text{ V, f} = 1 \text{ MHz}$		1.5		pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = I_R = 10 \text{ mA}$		1.0		ns
		$I_{rr} = 1 \text{ mA}, R_L = 100 \Omega$				
Detection efficiency	η	$V_{IN} = 3 V_{(peak)}$ , $f = 30 MHz$		65		%
		$R_L = 3.9 \text{ k}\Omega, C_L = 10 \text{ pF}$				

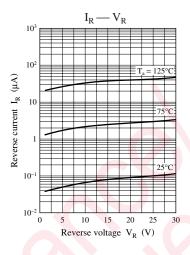
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
  - 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.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

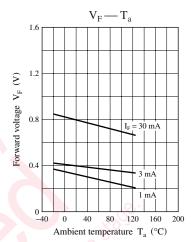


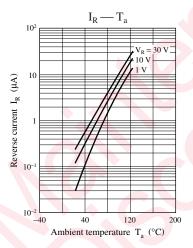
SKH00102CED 1 Publication date: April 2004

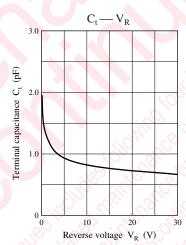
### **Panasonic**

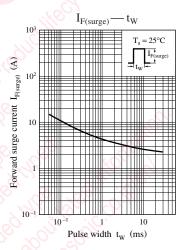












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