# MA2J728 (MA728)

### Silicon epitaxial planar type

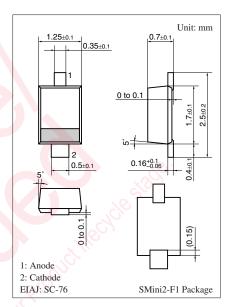
For super high speed switching For wave detection

#### ■ Features

- Low forward voltage V<sub>F</sub> and good wave detection efficiency η
- Small reverse current I<sub>R</sub>
- Small temperature coefficient of forward characteristic

#### ■ 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
Peak forward current	$I_{FM}$	150	mA
Forward current	$I_{\mathrm{F}}$	30	mA
Junction temperature	T <sub>j</sub>	125	°C
Storage temperature	T <sub>stg</sub>	-55 to +125	°C

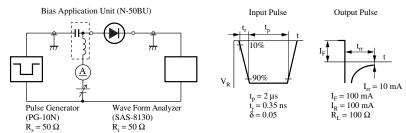


Marking Symbol: 2A

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{F1}$	$I_F = 1 \text{ mA}$	19/1	70	0.4	V
	$V_{F2}$	$I_F = 30 \text{ mA}$	100	, YC	1.0	
Reverse current	$I_R$	$V_R = 30 \text{ V}$	100	50,	300	nA
Terminal capacitance	$C_{t}$	$V_R = 1 \text{ V, } f = 1 \text{ MHz}$		1.5		pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = I_R = 10 \text{ mA}$	, 76	1.0		ns
		$I_{rr} = 1 \text{ mA}, R_L = 100 \Omega$	<sup>6</sup> 0/,			
Detection efficiency	η	$V_{IN} = 3 V_{(peak)}$ , $f = 30 MHz$		65		%
		$R_L = 3.9 \text{ k}\Omega, C_L = 10 \text{ pF}$				

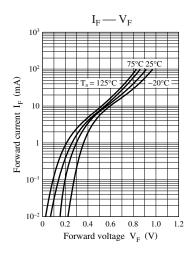
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
  - This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.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

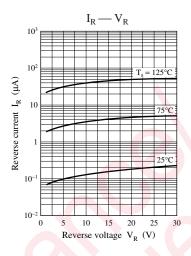


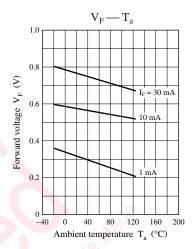
Note) The part number in the parenthesis shows conventional part number.

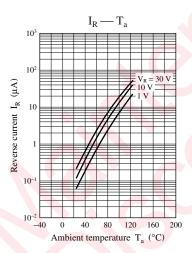
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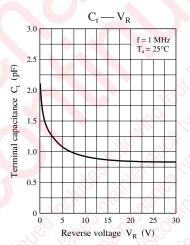
### **Panasonic**











2 SKH00014BED

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