## **MA2ZD14**

### Silicon epitaxial planar type

For high speed switching

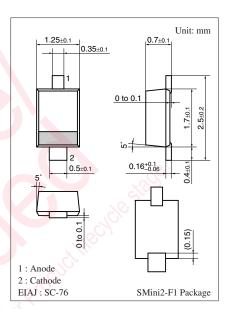
#### ■ Features

• Low forward voltage:  $V_F < 0.40 \text{ V}$ 

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

Parameter	Symbol	Rating	Unit	
Reverse voltage	$V_R$	20	V	
Repetitive peak reverse voltage	V <sub>RRM</sub>	20	V	
Forward current (Average)	I <sub>F(AV)</sub>	100	mA	
Peak forward current	$I_{FM}$	300	mA	
Non-repetitive peak forward surge current *	I <sub>FSM</sub>	1	A	
Junction temperature	T <sub>j</sub>	125	°C	
Storage temperature	$T_{stg}$	-55 to +125	°C	

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

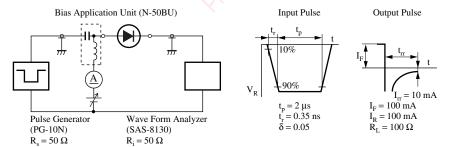


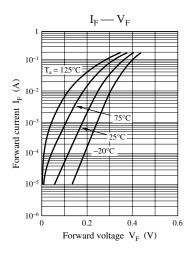
Marking Symbol: 2N

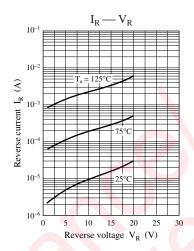
#### ■ Electrical Characteristics $T_a = 25$ °C $\pm 3$ °C

Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage		$V_{F1}$	$I_F = 5 \text{ mA}$		, /C	0.27	V
		V <sub>F2</sub>	$I_F = 100 \text{ mA}$	100	0,	0.40	
Reverse current		$I_R$	$V_R = 10 \text{ V}$		).	20	μΑ
Terminal capacitance		$C_t$	$V_R = 0 V, f = 1 MHz$	160	25		pF
Reverse recovery time *		t <sub>rr</sub>	$I_F = I_R = 100 \text{ mA}$		3		ns
	7C, C, C		$I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$				

- 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 250 MHz.
  - 4. \*: t<sub>rr</sub> measurement circuit







2

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