# **MA2SD31**

### Silicon epitaxial planar type

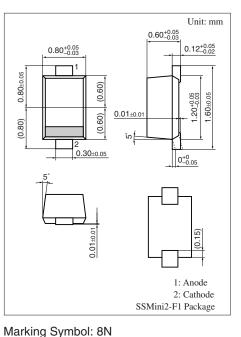
For super high speed switching

#### Features

- $I_{F(AV)} = 200$  mA rectification is possible.
- Low forward voltage:  $V_F < 0.47$  V (at  $I_F = 200$  mA)

Parameter	Symbol	Rating	Unit				
Reverse voltage	V <sub>R</sub>	30	V				
Repetitive peak reverse voltage	V <sub>RRM</sub>	30	V				
Forward current (Average)	I <sub>F(AV)</sub>	200	mA				
Peak forward current	I <sub>FM</sub>	300	mA				
Non-repetitive peak forward surge current *	I <sub>FSM</sub>	1	А				
Junction temperature	Tj	125	°C				
Storage temperature	T <sub>stg</sub>	-55 to +125	°C				





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

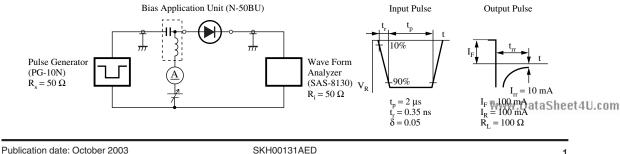
#### Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current	I <sub>R1</sub>	$V_R = 10 V$			20	μΑ
	I <sub>R2</sub>	$V_R = 30 V$			200	
Forward voltage	V <sub>F</sub>	I <sub>F</sub> = 200 mA		0.38	0.47	V
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$		25		pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = I_R = 100 \text{ mA}$		2		ns
		$I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$				

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.

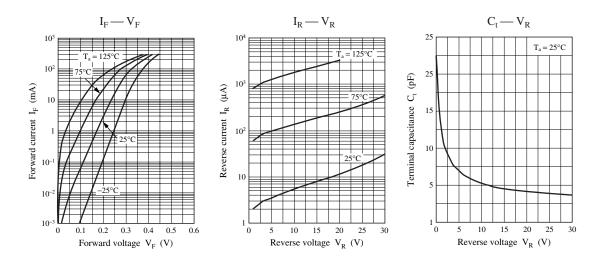
- 3. Absolute frequency of input and output is 250 MHz
- 4. \*: trr measurement circuit



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