# MA5J002D

### Silicon epitaxial planar type

For high speed switching circuit

#### Features

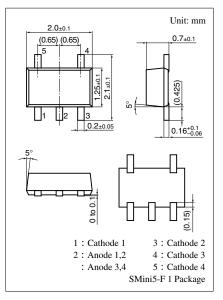
- S-Mini type 5-pin package
- Includes 4 elements of annode common connection
- Parts reduction is possible
- Ideal for surge voltage absorption

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

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V <sub>R</sub>	80	V
Peak reverse voltage	V <sub>RM</sub>	80	V
Forward current (DC) *1	I <sub>F</sub>	100	mA
Peak forward current *1	I <sub>FM</sub>	225	mA
Non-repetitive peak forward- surge-current *1, 2	I <sub>FSM</sub>	500	mA
Junction temperature	Tj	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C

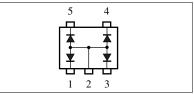
Note) \*1: Value per a diode

\*2: t = 1 s



#### Marking Symbol: M5C

#### Internal Connection

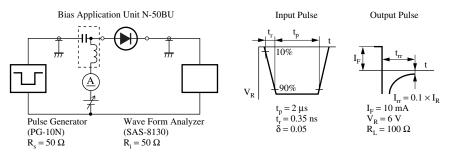


#### Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

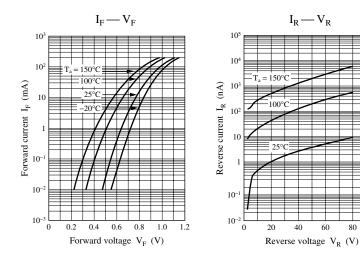
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I <sub>R</sub>	$V_R = 70 V$			100	nA
Forward voltage (DC)	V <sub>F</sub>	$I_F = 100 \text{ mA}$			1.3	V
Reverse voltage (DC)	V <sub>R</sub>	$I_R = 100 \ \mu A$	80			V
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$			3.5	pF
Reverse recovery time *	t <sub>rr</sub>	$\begin{split} I_F &= 10 \text{ mA},  V_R = 6  \text{V} \\ I_{rr} &= 0.1 \times I_R ,  R_L = 100  \Omega \end{split}$			5.0	ns

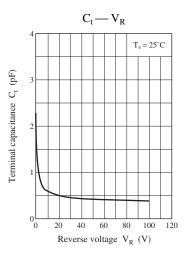
Note) 1. Rated input/output frequency: 100 MHz

2. \*: t<sub>rr</sub> measuring instrument



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