MA5J002E

Silicon epitaxial planar type

For high speed switching circuits

■ Features

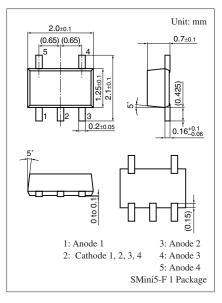
- Includes 4 elements of cathode common connection
- Parts reduction is possible
- Ideal for surge voltage absorption

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	80	V
Maximum peak reverse voltage	V_{RM}	80	V
Forward current *1	I_{F}	100	mA
Peak forward current *1	I_{FM}	225	mA
Non-repetitive peak forward surge current *1, 2	I_{FSM}	500	mA
Junction temperature	T_{j}	150	°C
Operating ambient temperature	T_{opr}	-25 to +105	°C
Storage temperature	T_{stg}	-55 to +150	°C

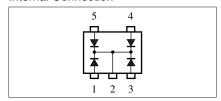
Note) *1: Value in single diode used.

*2: t = 1 s



Marking Symbol: M5B

Internal Connection

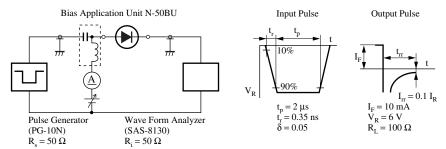


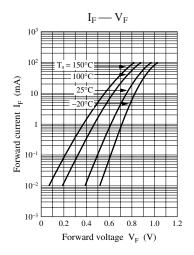
■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

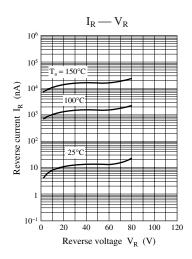
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_F = 100 \text{ mA}$			1.2	V
Reverse voltage	V _R	$I_R = 100 \mu A$	80			V
Reverse current	I_R	$V_R = 75 \text{ V}$			100	nA
Terminal capacitance	C _t	$V_R = 0 V, f = 1 MHz$			2	pF
Reverse recovery time *	t _{rr}	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$			3	ns
		$I_{rr} = 0.1 I_R$, $R_L = 100 \Omega$				

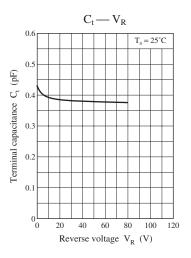
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring method for diodes.

- 2. Absolute frequency of input and output is 100 MHz.
- 3. *: t_{rr} measurement circuit









2 SKF00061BED

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