# MA3X100 (MA10100)

## Silicon epitaxial planar type

### For switching circuits

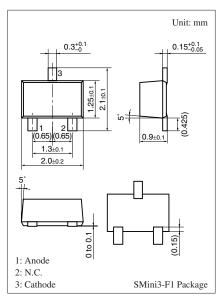
#### ■ Features

- High breakdown voltage:  $V_R = 200 \text{ V}$
- Small terminal capacitance

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

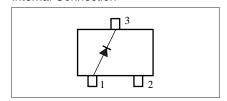
Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	$V_R$	200	V
Repetitive peak reverse voltage	$V_{RRM}$	250	V
Average forward current	I <sub>F(AV)</sub>	100	mA
Repetitive peak forward current	$I_{FRM}$	225	mA
Non-repetitive peak forward- surge-current *	I <sub>FSM</sub>	500	mA
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C

Note) \*: t = 1 s



Marking Symbol: M3A

#### Internal Connection

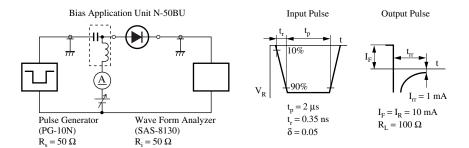


## ■ Electrical Characteristics $T_a = 25$ °C $\pm 3$ °C

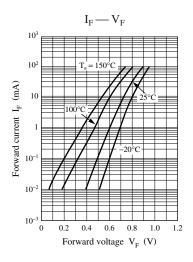
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	$I_R$	$V_R = 200 \text{ V}$			1.0	μΑ
Forward voltage (DC)	V <sub>F</sub>	$I_F = 100 \text{ mA}$			1.2	V
Terminal capacitance	C <sub>t</sub>	$V_R = 0 V, f = 1 MHz$			3.0	pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = I_R = 10 \text{ mA}$ $I_{rr} = 1 \text{ mA}, R_L = 100 \Omega$			60	ns

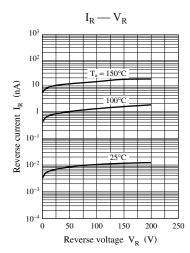
Note) 1. Rated input/output frequency: 20 MHz

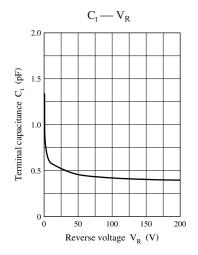
2. \*: t<sub>rr</sub> measuring instrument



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







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