

# MA3X100 (MA10100)

Silicon epitaxial planar type

For switching circuits

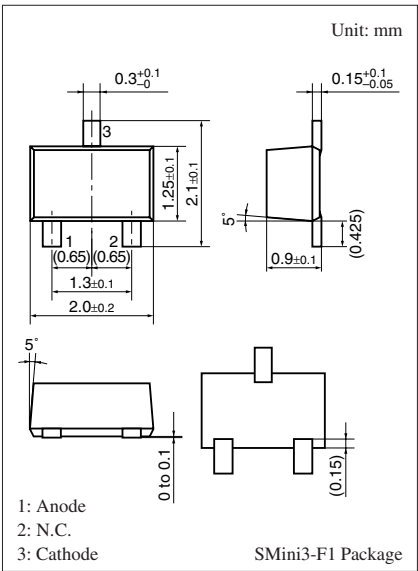
## ■ Features

- High breakdown voltage:  $V_R = 200$  V
- Small terminal capacitance

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

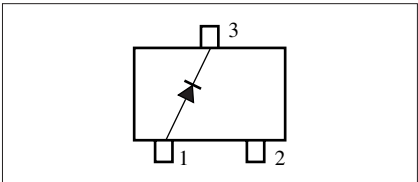
Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	$V_R$	200	V
Repetitive peak reverse voltage	$V_{RRM}$	250	V
Average forward current	$I_{F(AV)}$	100	mA
Repetitive peak forward current	$I_{FRM}$	225	mA
Non-repetitive peak forward-surge-current *	$I_{FSM}$	500	mA
Junction temperature	$T_j$	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$

Note) \*:  $t = 1$  s



Marking Symbol: M3A

Internal Connection

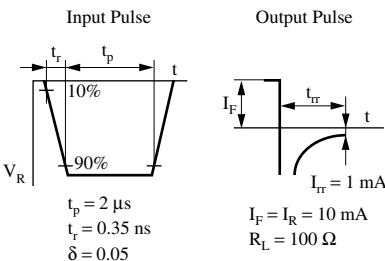
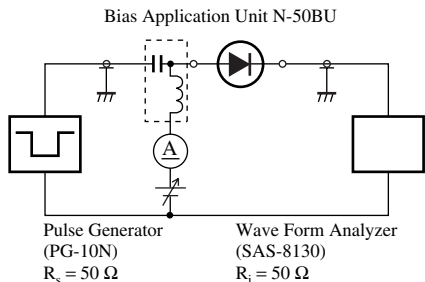


## ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

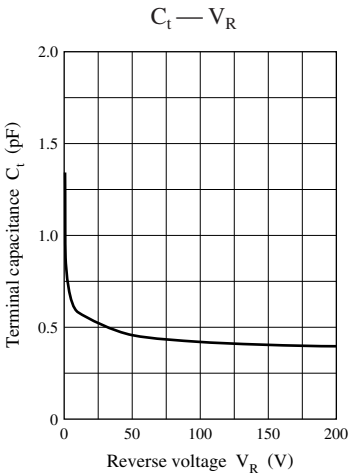
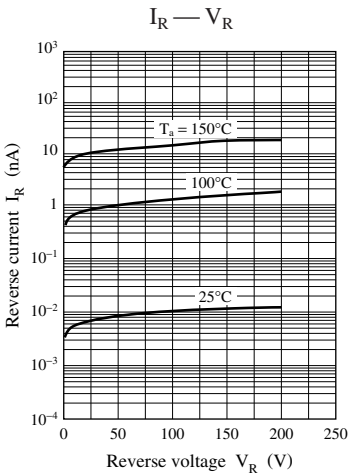
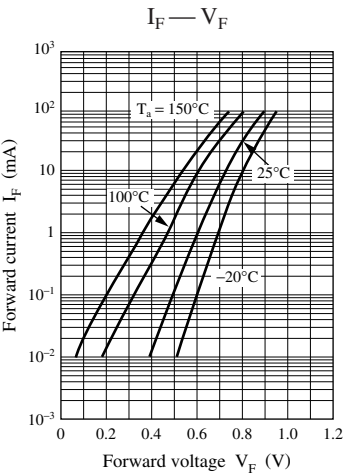
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	$I_R$	$V_R = 200$ V			1.0	$\mu\text{A}$
Forward voltage (DC)	$V_F$	$I_F = 100$ mA			1.2	V
Terminal capacitance	$C_t$	$V_R = 0$ V, $f = 1$ MHz			3.0	pF
Reverse recovery time *	$t_{rr}$	$I_F = I_R = 10$ mA $I_{rr} = 1$ mA, $R_L = 100$ $\Omega$			60	ns

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

2. \*:  $t_{rr}$  measuring instrument



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



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