

# MA2S101

Silicon epitaxial planar type

For switching circuit

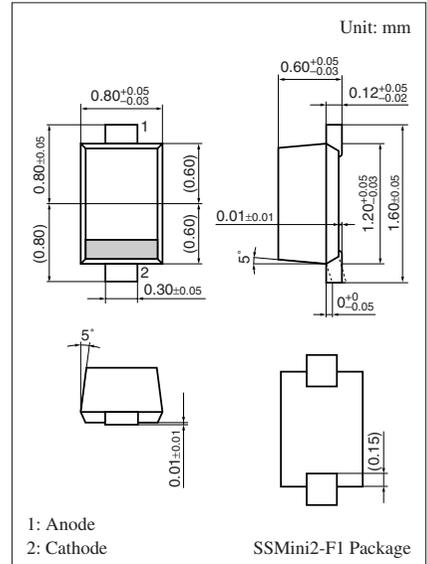
■ Features

- High breakdown voltage:  $V_R = 250$  V
- Small terminal capacitance
- Suitable for high-density mounting

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

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	$V_R$	250	V
Repetitive peak reverse voltage	$V_{RRM}$	250	V
Forward current (DC)	$I_F$	100	mA
Peak forward current	$I_{FM}$	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



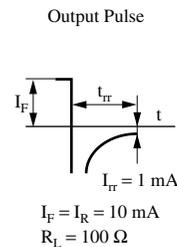
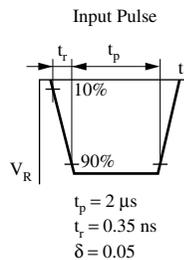
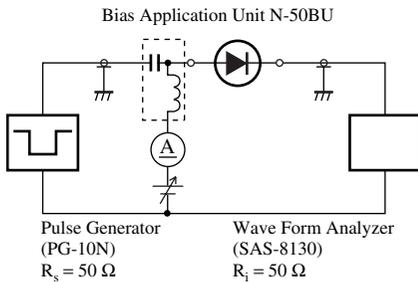
Marking Symbol: 1P

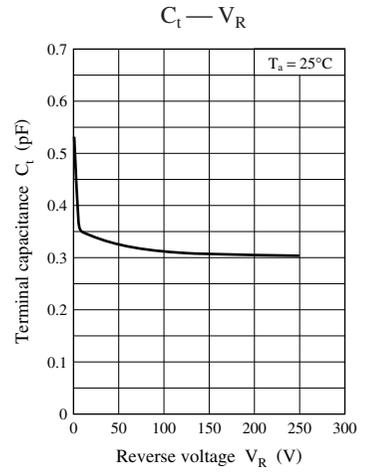
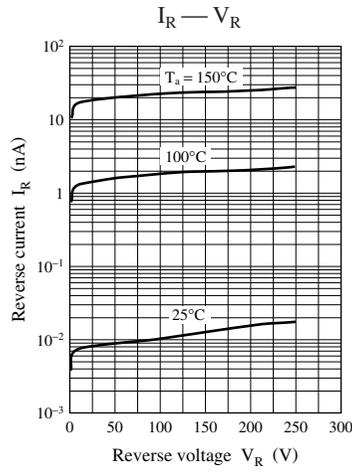
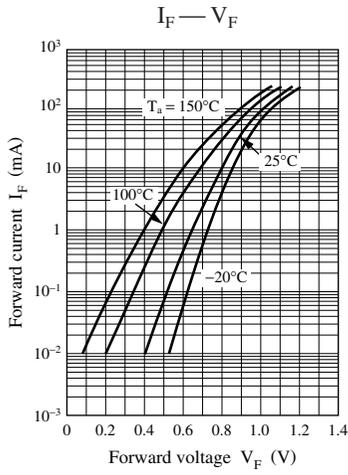
■ Electrical Characteristics  $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	$I_R$	$V_R = 250$ V			1.0	$\mu\text{A}$
Forward voltage (DC)	$V_F$	$I_F = 70$ 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





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