

# MA2S101

## Silicon epitaxial planar type

For switching circuits

### ■ Features

- High breakdown voltage:  $V_R = 250\text{ V}$
- Small terminal capacitance  $C_t$
- Suitable for high-density mounting

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

Parameter	Symbol	Rating	Unit
Reverse voltage	$V_R$	250	V
Repetitive peak reverse voltage	$V_{RRM}$	250	V
Forward current	$I_F$	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	$^\circ\text{C}$

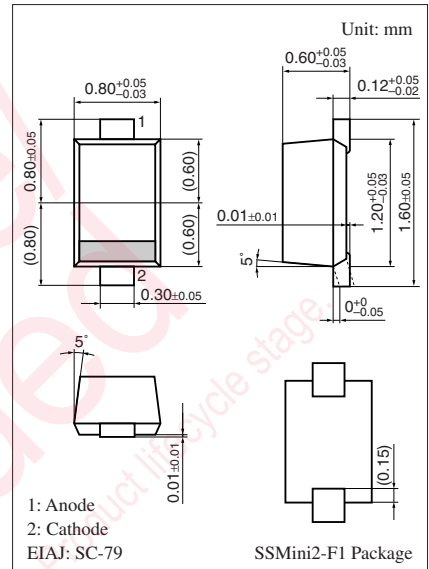
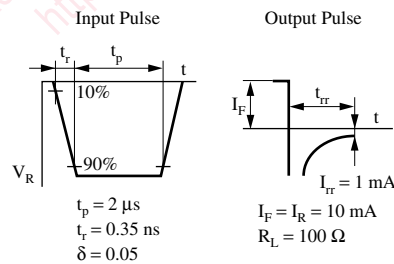
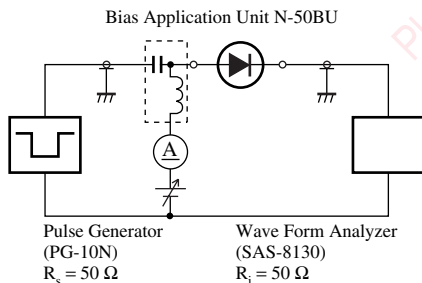
Note) \*:  $t = 1\text{ s}$

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

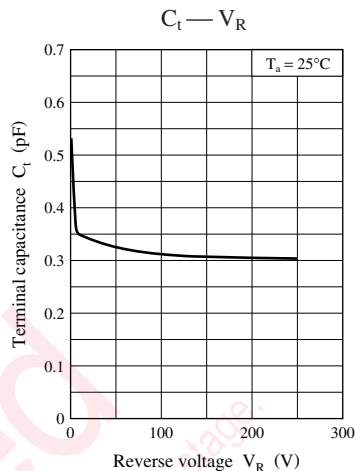
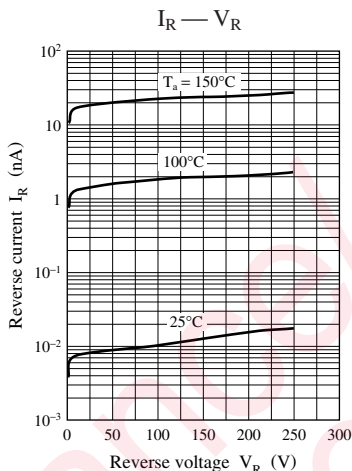
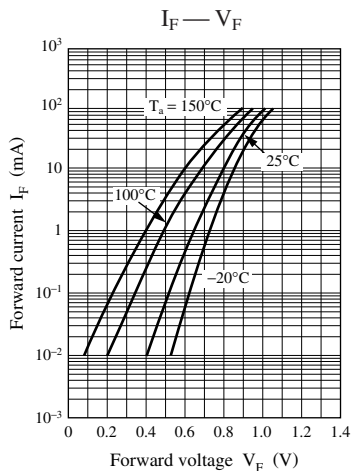
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_F$	$I_F = 70\text{ mA}$			1.2	V
Reverse current	$I_R$	$V_R = 250\text{ V}$			1.0	$\mu\text{A}$
Terminal capacitance	$C_t$	$V_R = 0\text{ V}, f = 1\text{ MHz}$			3.0	pF
Reverse recovery time *	$t_{rr}$	$I_F = I_R = 10\text{ mA}$ $I_{rr} = 1\text{ mA}, R_L = 100\ \Omega$			60	ns

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

2. Absolute frequency of input and output is 20 MHz.
3. \*:  $t_{rr}$  measurement circuit



Marking Symbol: 1P



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