

MA2SD19

Silicon epitaxial planar type

For super high speed switching

■ Features

- Forward current (Average) $I_{F(AV)} = 200$ mA rectification is possible
- Low forward voltage: $V_F < 0.47$ V
- Small reverse current: $I_R < 20$ μ A

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

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	20	V
Repetitive peak reverse voltage	V_{RRM}	20	V
Non-repetitive peak forward surge current *	I_{FSM}	1	A
Peak forward current	I_{FM}	300	mA
Forward current (Average)	$I_{F(AV)}$	200	mA
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

Note) *: The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)

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

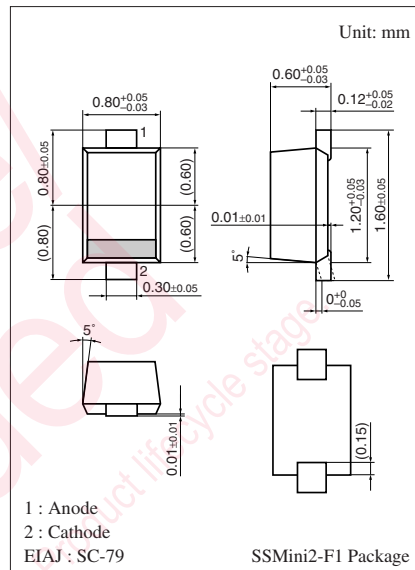
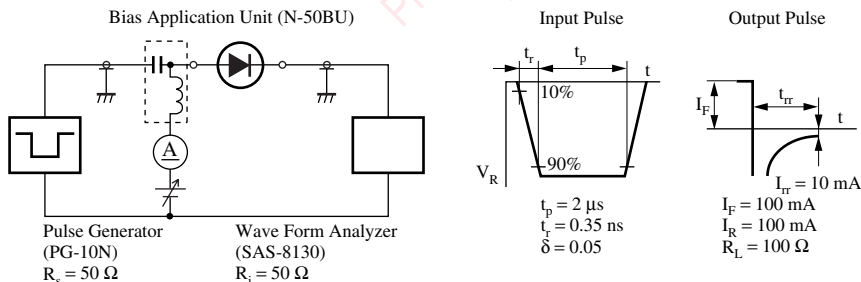
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 200$ mA			0.47	V
Reverse current	I_R	$V_R = 10$ V			15	μ A
Terminal capacitance	C_t	$V_R = 0$ V, $f = 1$ MHz		15		pF
Reverse recovery time *	t_{rr}	$I_F = I_R = 100$ mA $I_F = 10$ mA, $R_L = 100$ Ω		2		ns

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

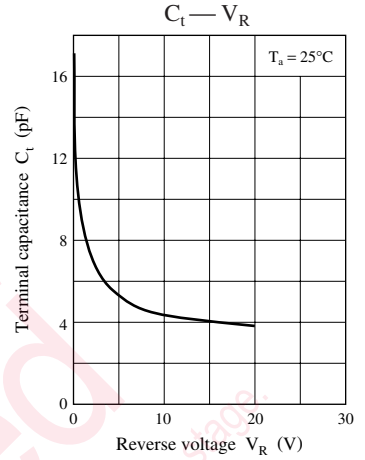
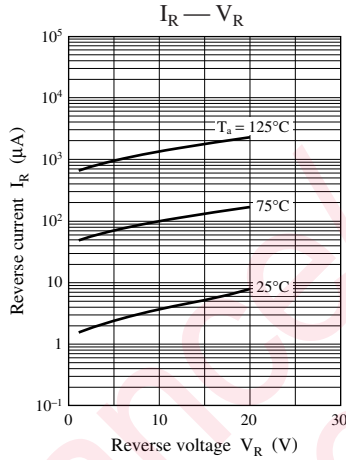
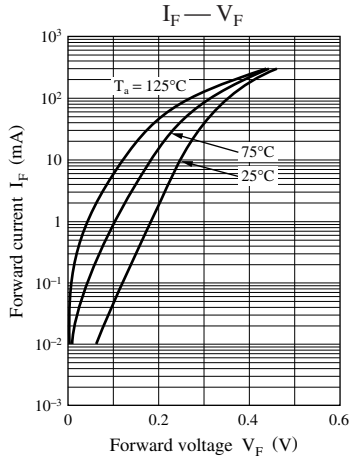
2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

3. Absolute frequency of input and output is 250 MHz.

4. *: t_{rr} measurement circuit



Marking Symbol: 3L



Maintenance/Discontinued includes following four Product lifecycle stages:
 planned maintenance type
 maintenance type
 planned discontinued type
 discontinued type
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standard applications or general electronic equipment (such as office
and household appliances).

ng applications:

biles, traffic control equipment, combustion equipment, life support
reliability are required, or if the failure or malfunction of the prod-

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use of the products, therefore, ask for the most up-to-date Product
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(.). Especially, please be careful not to exceed the range of absolute
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take into the consideration of incidence of break down and failure
n the systems such as redundant design, arresting the spread of fire
al injury, fire, social damages, for example, by using the products.

own and characteristics change due to external factors (ESD, EOS,
mounting or at customer's process. When using products for which
shelf life and the elapsed time since first opening the packages.

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