

# MA2SD31

## Silicon epitaxial planar type

For super high speed switching

### ■ Features

- $I_{F(AV)} = 200$  mA rectification is possible.
- Low forward voltage:  $V_F < 0.47$  V (at  $I_F = 200$  mA)

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

Parameter	Symbol	Rating	Unit
Reverse voltage	$V_R$	30	V
Repetitive peak reverse voltage	$V_{RRM}$	30	V
Forward current (Average)	$I_{F(AV)}$	200	mA
Peak forward current	$I_{FM}$	300	mA
Non-repetitive peak forward surge current *	$I_{FSM}$	1	A
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)

### ■ Package

- Code  
SSMini2-F1
- Pin Name  
1: Anode  
2: Cathode

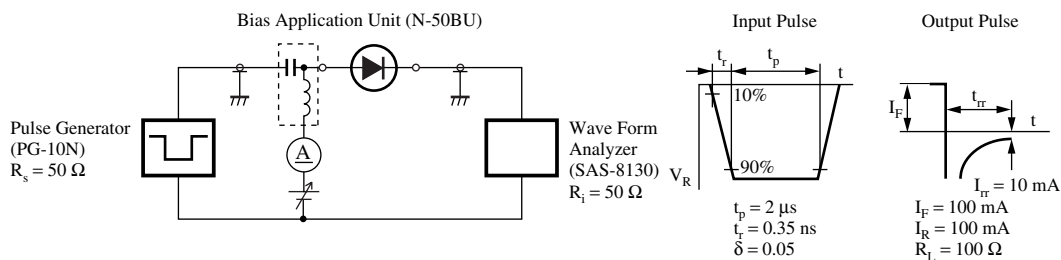
### ■ Marking Symbol: 8F

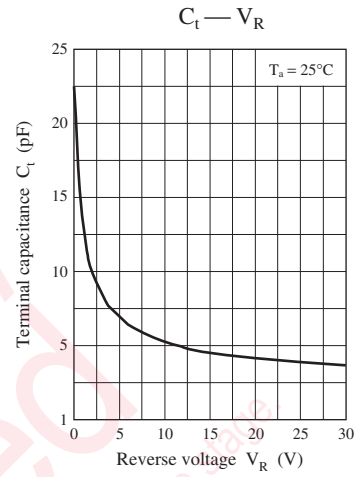
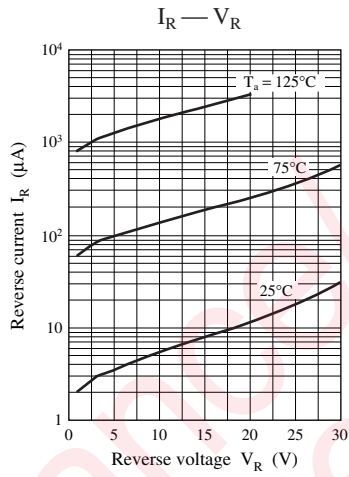
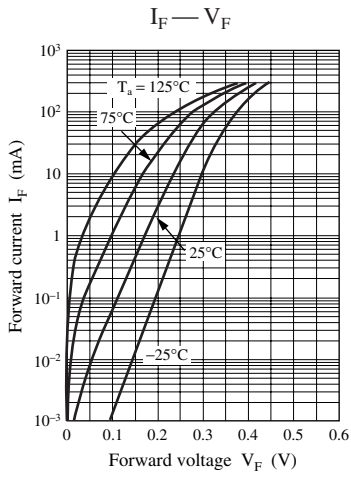
### ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current	$I_{R1}$	$V_R = 10$ V			20	$\mu\text{A}$
	$I_{R2}$	$V_R = 30$ V			200	
Forward voltage	$V_F$	$I_F = 200$ mA		0.38	0.47	V
Terminal capacitance	$C_t$	$V_R = 0$ V, $f = 1$ MHz		25		pF
Reverse recovery time *	$t_{rr}$	$I_F = I_R = 100$ mA $I_{rr} = 10$ mA, $R_L = 100 \Omega$		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





Maintenance/Discontinued

includes following four Product lifecycle stages:

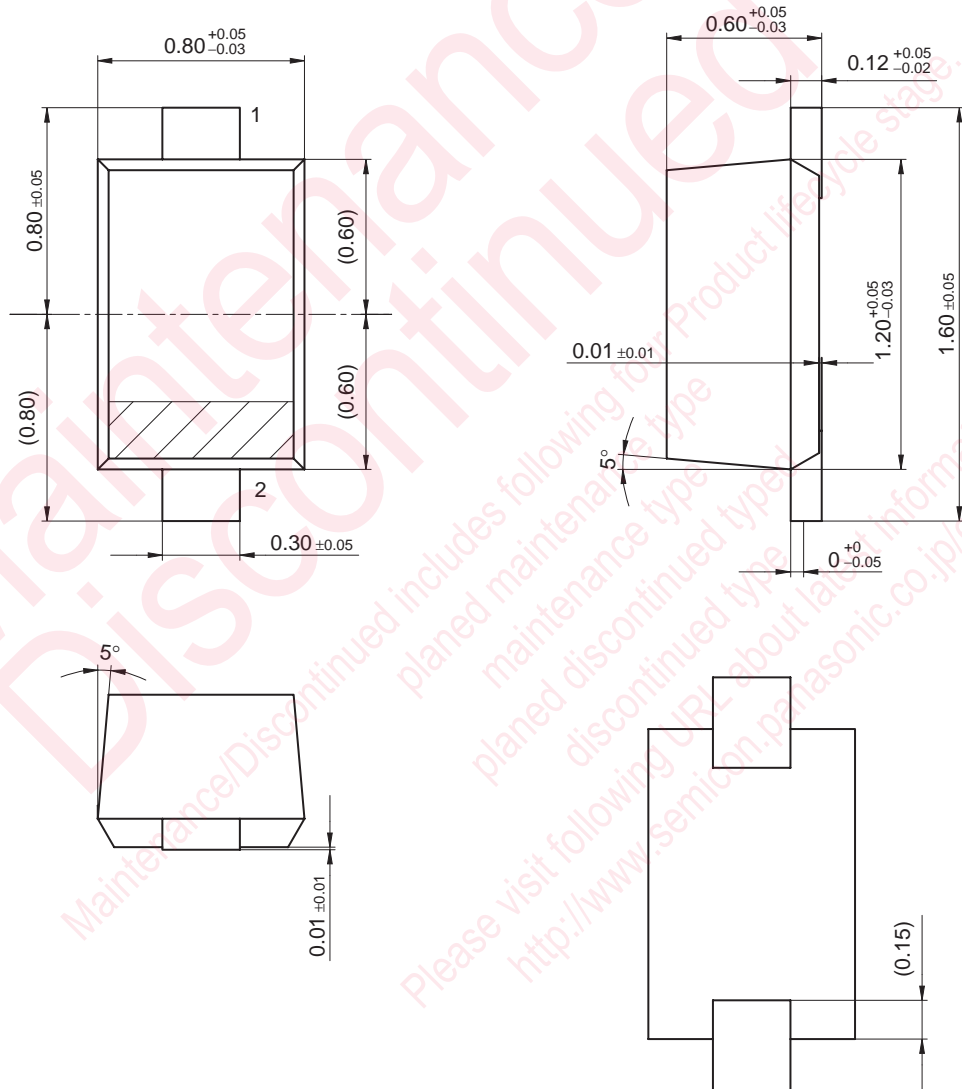
- planned maintenance type
- maintenance type
- planned discontinued type
- discontinued type

Please visit following URL about latest information.

<http://www.semicon.panasonic.co.jp/en/>

SSMini2-F1

Unit: mm



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standard applications or general electronic equipment (such as office  
and household appliances).

g applications:

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

are subject to change without notice for modification and/or im-  
se of the products, therefore, ask for the most up-to-date Product  
atisfy your requirements.

bsolute maximum rating and the guaranteed operating conditions  
) . Especially, please be careful not to exceed the range of absolute  
r-off and mode-switching. Otherwise, we will not be liable for any

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,  
ounting or at customer's process. When using products for which  
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