

# MA2SD240G

## Silicon epitaxial planar type

For super high speed switching

### ■ Features

- Forward current (Average)  $I_{F(AV)} = 200$  mA rectification is possible
- Small reverse current  $I_R$

### ■ Package

- Code  
SSMini2-F4
- Pin Name  
1: Anode  
2: Cathode

### ■ 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
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	$^\circ\text{C}$

### ■ Marking Symbol: 5L

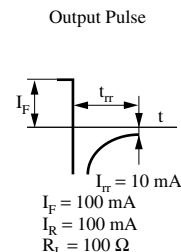
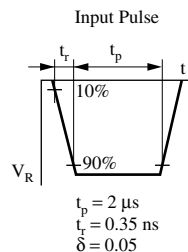
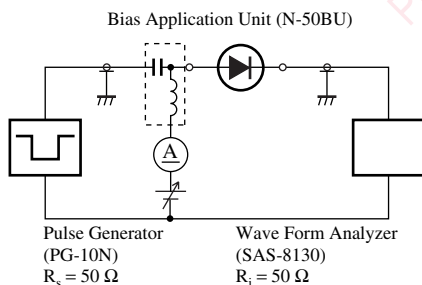
Note) \*: The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)

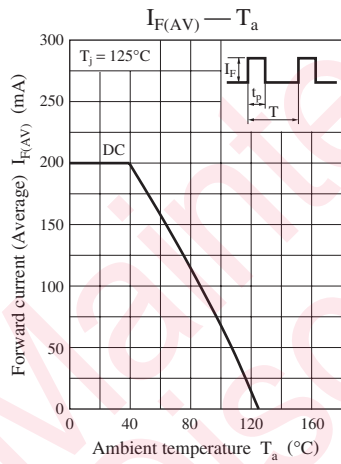
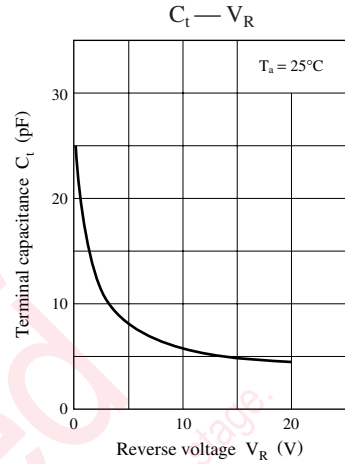
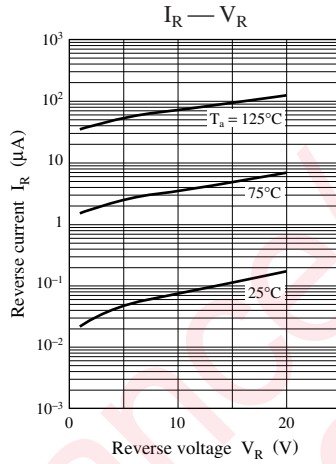
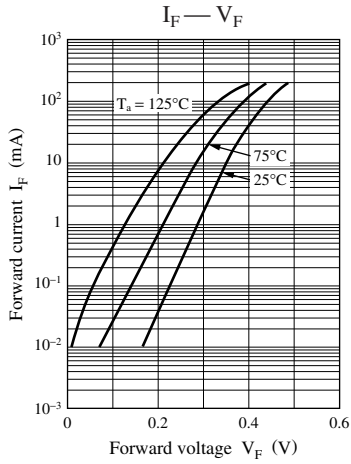
### ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_F$	$I_F = 200$ mA		0.50	0.58	V
Reverse current	$I_R$	$V_R = 10$ V		0.1	1.0	$\mu\text{A}$
Terminal capacitance	$C_t$	$V_R = 0$ V, $f = 1$ MHz		25		pF
Reverse recovery time *	$t_{rr}$	$I_F = I_R = 100$ mA $I_{tr} = 10$ mA, $R_L = 100$ $\Omega$		3		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

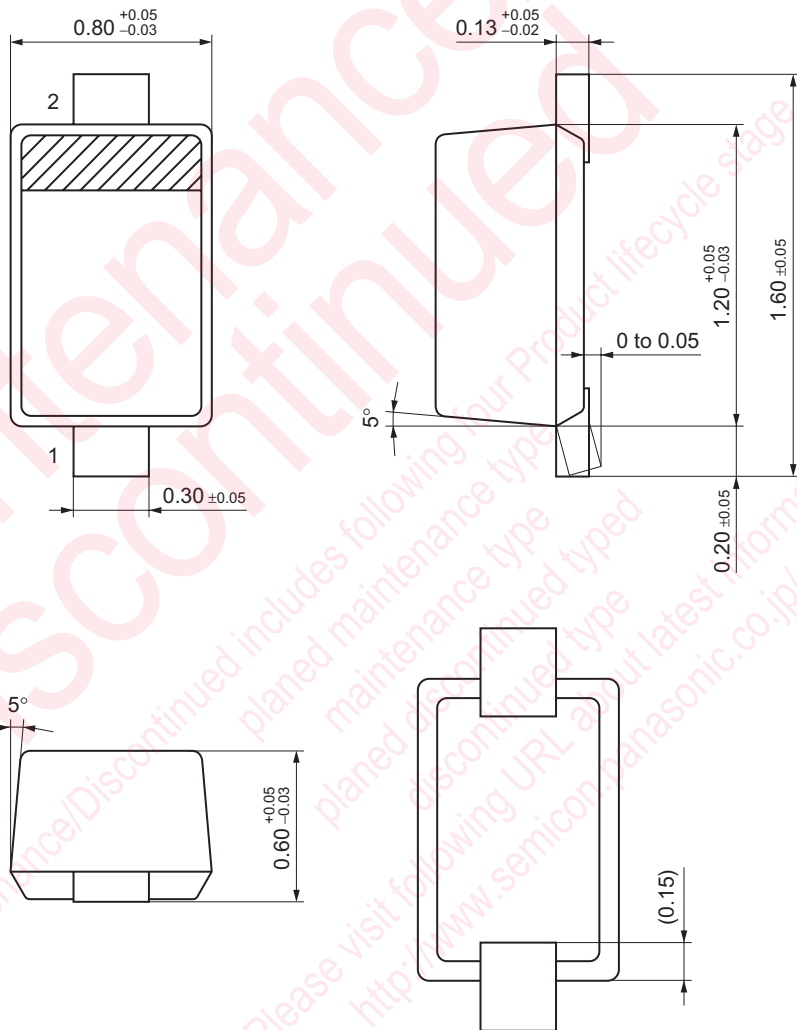




Maintenance/Discontinued includes following four Product lifecycle stages:  
 planned maintenance type  
 maintenance type  
 planned discontinued type  
 discontinued type  
 Please visit following URL about latest information.  
<http://www.semicon.panasonic.co.jp/en/>

SSMini2-F4

Unit: mm



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and household appliances).

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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  
er-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.

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