

# MA27D290G

## Silicon epitaxial planar type

For super high speed switching

### ■ Features

- Low forward voltage:  $V_F < 0.42 \text{ V}$  (at  $I_F = 100 \text{ mA}$ )
- Optimum for high frequency rectification because of its short reverse recovery time  $t_{rr}$ .

### ■ Package

- Code  
SSSMINI2-F3
- Pin Name  
1: Anode  
2: Cathode

### ■ 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)	$I_{F(AV)}$	100	mA
Peak forward current	$I_{FM}$	200	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: 8M

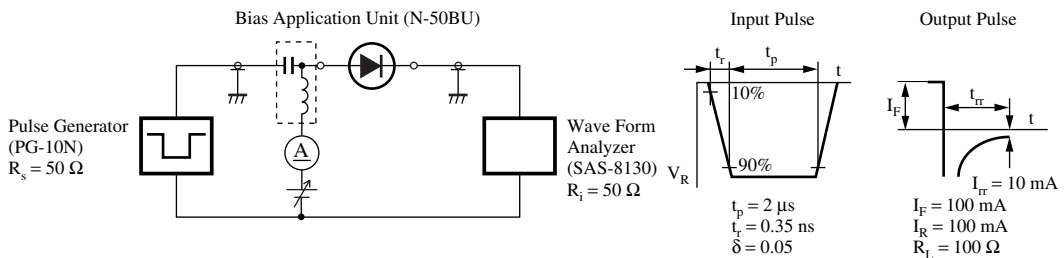
Note) \*: The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)

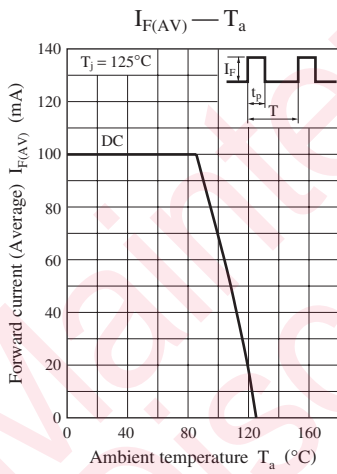
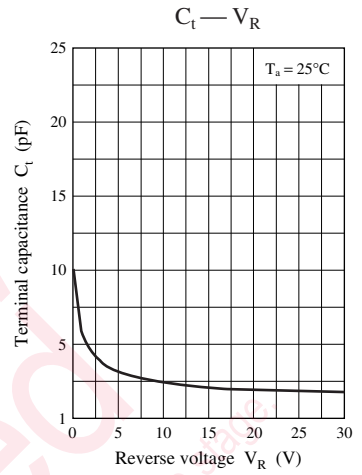
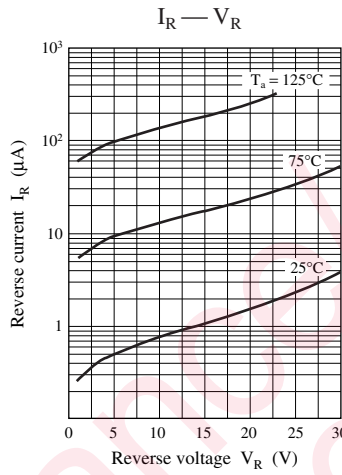
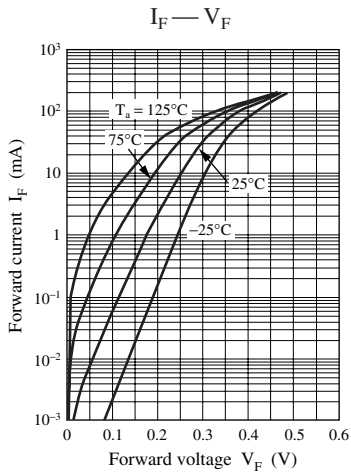
### ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_{F1}$	$I_F = 10 \text{ mA}$		0.25	0.29	V
	$V_{F2}$	$I_F = 100 \text{ mA}$		0.39	0.42	V
Reverse current	$I_{R1}$	$V_R = 10 \text{ V}$			25	$\mu\text{A}$
	$I_{R2}$	$V_R = 30 \text{ V}$			120	$\mu\text{A}$
Terminal capacitance	$C_t$	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$		9		pF
Reverse recovery time *	$t_{rr}$	$I_F = I_R = 100 \text{ mA}$ $I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$		1		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 status

planned maintenance type

maintenance type

planned discontinued type

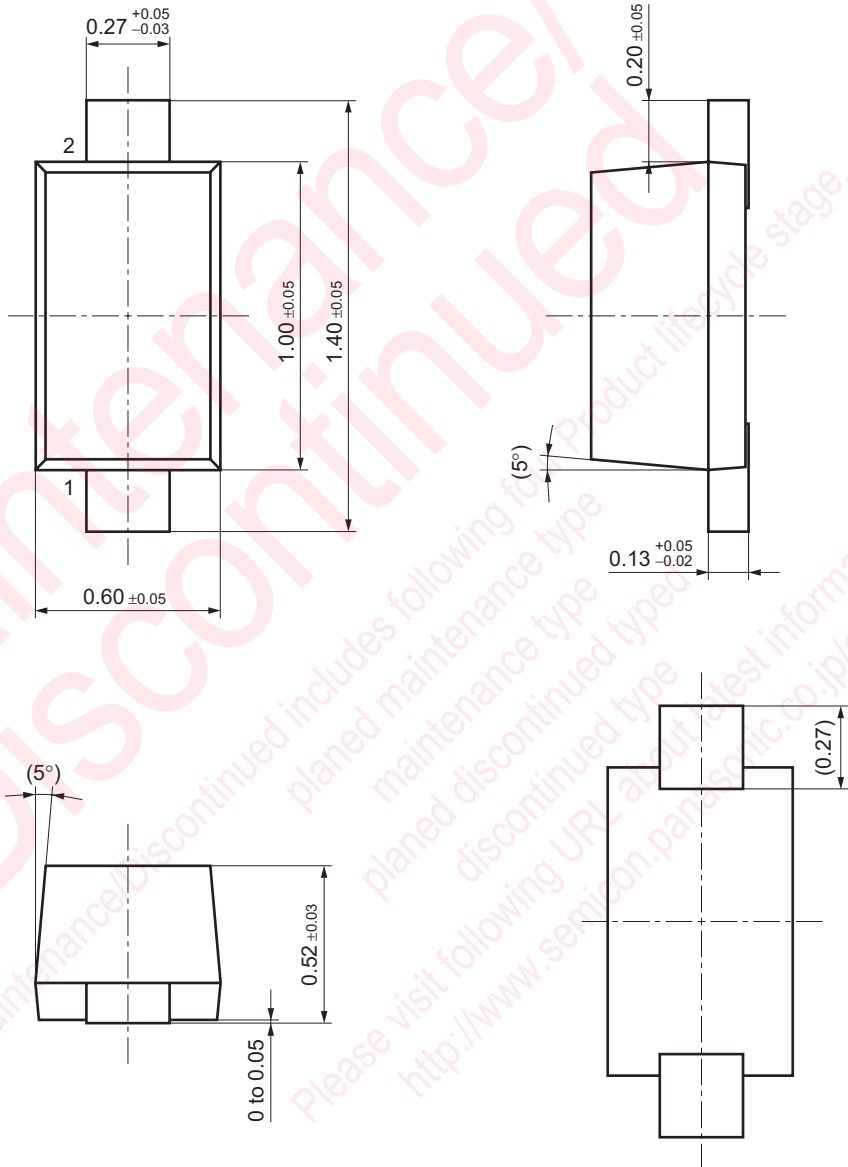
discontinued type

Please visit following URL about latest information.

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

SSSMini2-F3

Unit: mm



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ly to show the main characteristics and application circuit examples  
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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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take into the consideration of incidence of break down and failure  
n the systems such as redundant design, arresting the spread of fire  
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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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