

MA21D380G

Silicon epitaxial planar type

For high frequency rectification

■ Features

- $I_{F(AV)} = 1$ A rectification is possible
- Low forward voltage V_F
- Large non-repetitive peak forward surge current I_{FSM}

■ Package

- Code
SMini2-F2
- 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
Maximum peak reverse voltage	V_{RM}	30	V
Forward current (Average)	$I_{F(AV)}$	1.0	A
Non-repetitive peak forward surge current *	I_{FSM}	20	A
Junction temperature	T_j	125	$^\circ\text{C}$
Storage time	T_{stg}	-55 to +125	$^\circ\text{C}$

■ Marking Symbol: 3U

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

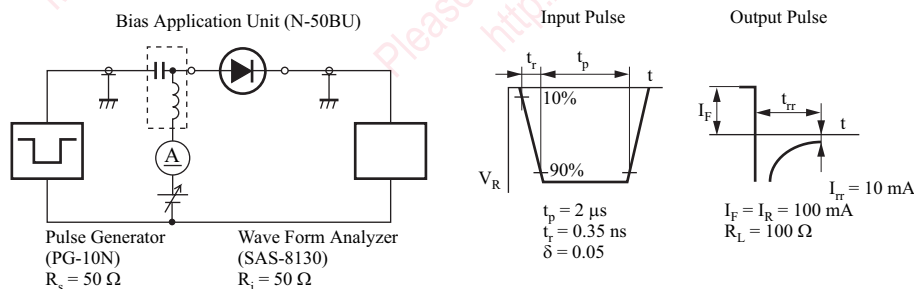
■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

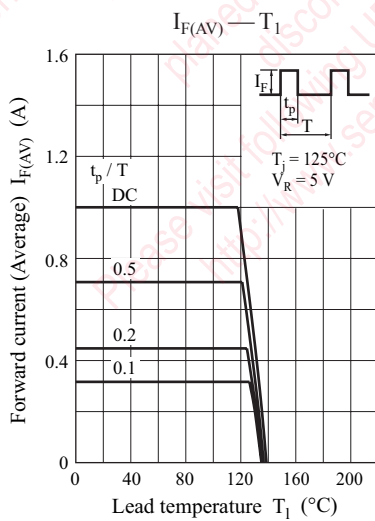
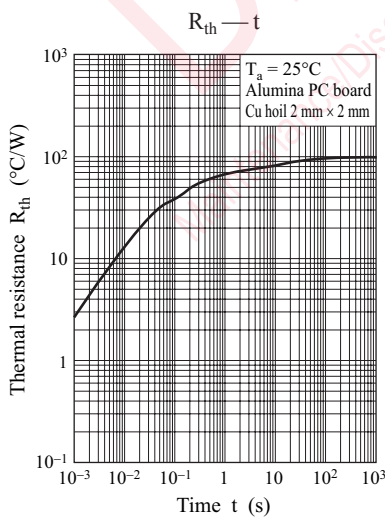
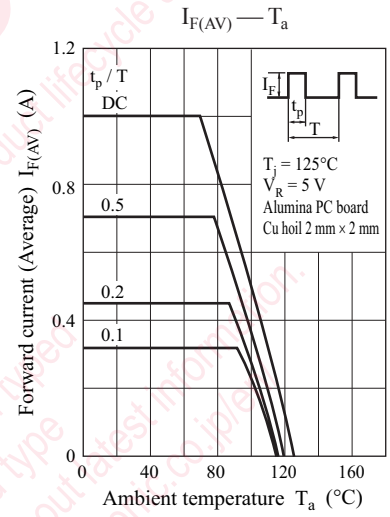
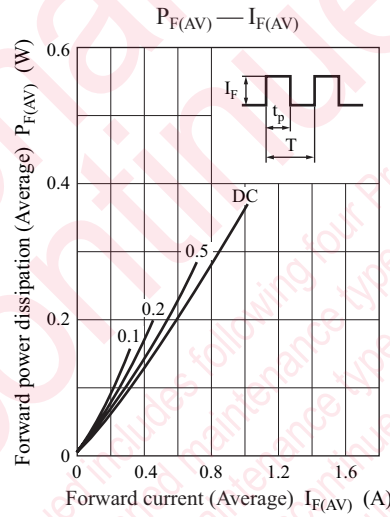
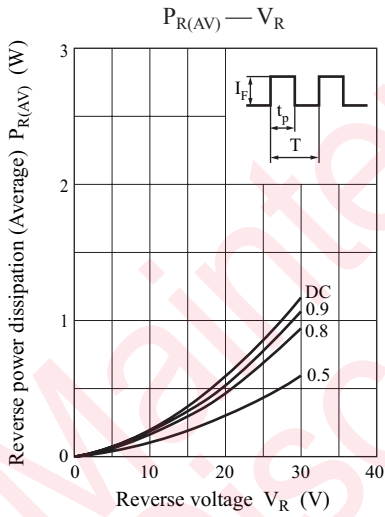
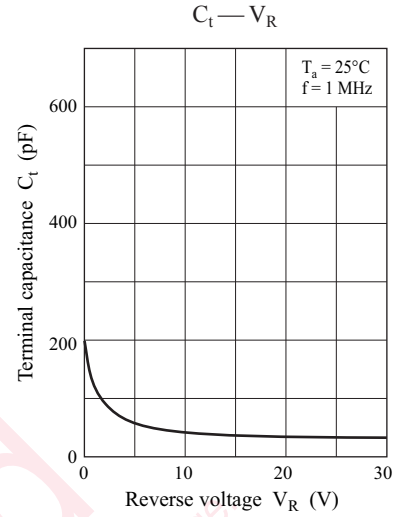
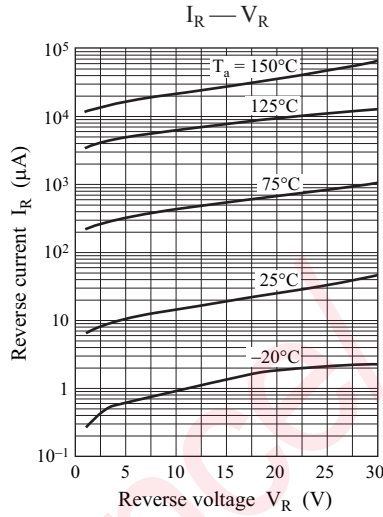
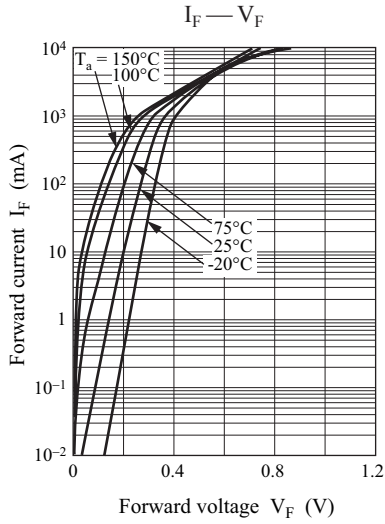
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_{F1}	$I_F = 0.5$ A		0.34	0.38	V
	V_{F2}	$I_F = 0.7$ A		0.36	0.40	
	V_{F3}	$I_F = 1.0$ A		0.38	0.42	
Reverse current	I_R	$V_R = 30$ V			100	μA
Terminal capacitance	C_t	$V_R = 10$ V, $f = 1$ MHz		40		pF
Reverse recovery time *	t_{rr}	$I_F = I_R = 100$ mA, $I_{rr} = 10$ mA, $R_L = 100 \Omega$		13		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.

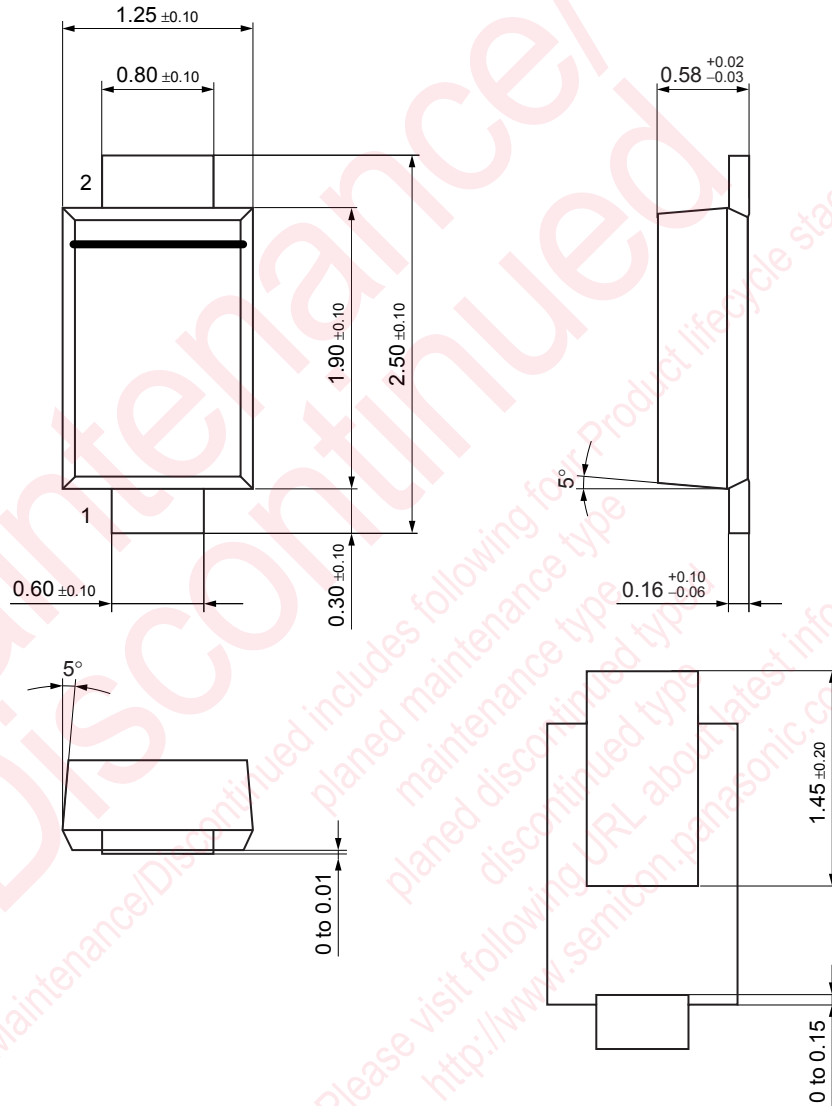
3. *: t_{rr} measurement circuit





SMini2-F2

Unit: mm



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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-

ck are subject to change without notice for modification and/or im-
use of the products, therefore, ask for the most up-to-date Product
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bsolute maximum rating and the guaranteed operating conditions
(.). 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.

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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