

MA21D34

Silicon epitaxial planar type

For rectification

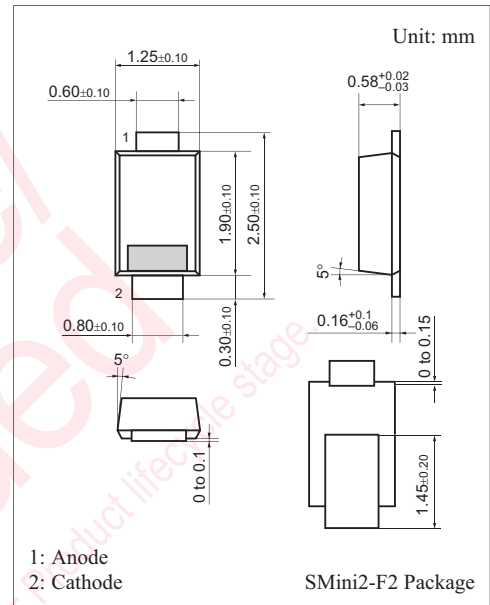
■ Features

- Forward current (Average) $I_{F(AV)} = 1.0$ A rectification is possible
- Low forward voltage V_F

■ 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	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

Note) *: 50 Hz sine wave 1 cycle (Non-repetitive peak current)



Marking Symbol: 4V

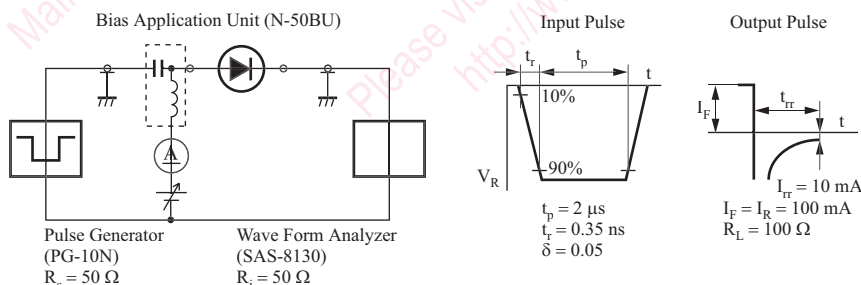
■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_{F1}	$I_F = 0.7$ A		0.33	0.36	V
	V_{F2}	$I_F = 1.0$ A		0.35	0.38	
Reverse current	I_R	$V_R = 30$ V			1200	μA
Terminal capacitance	C_t	$V_R = 10$ V, $f = 1$ MHz		45		pF
Reverse recovery time *	t_{rr}	$I_F = I_R = 100$ mA, $I_{rr} = 10$ mA, $R_L = 100 \Omega$		14		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



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ly to show the main characteristics and application circuit examples
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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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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
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