## **MAU2D29**

## Silicon epitaxial planar type

For high speed switching circuits

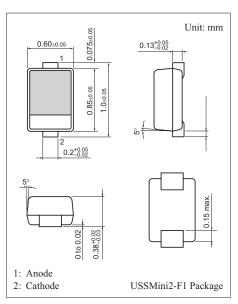
### ■ Features

- Optimum for high-density mounting
- Low forward voltage V<sub>F</sub>
- Short reverse recovery time t<sub>rr</sub>

### ■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Reverse voltage	$V_R$	30	V	
Repetitive peak reverse voltage	V <sub>RRM</sub>	30	V	
Forward current	$I_{\mathrm{F}}$	100	mA	
Peak forward current	$I_{FM}$	200	mA	
Non-repetitive peak forward surge current *	I <sub>FSM</sub>	1	A	
Junction temperature	T <sub>j</sub>	125	°C	
Storage temperature	T <sub>stg</sub>	-55 to +125	°C	

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



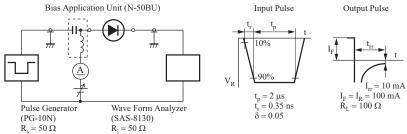
Marking Symbol: 1C

#### ■ Electrical Characteristics $T_a = 25$ °C±3°C

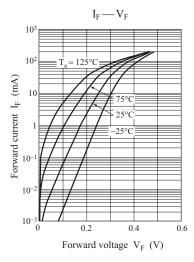
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{F1}$	$I_F = 10 \text{ mA}$		0.25	0.29	V
	$V_{F2}$	$I_F = 100 \text{ mA}$		0.39	0.42	V
Reverse current -	$I_{R1}$	$V_R = 10 \text{ V}$			25	μА
	I <sub>R2</sub>	$V_R = 30 \text{ V}$			120	μΑ
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$		11		pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = I_R = 100 \text{ mA}, I_{rr} = 10 \text{ mA},$ $R_L = 100 \Omega$		1		ns

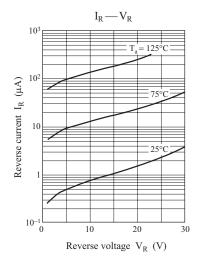
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

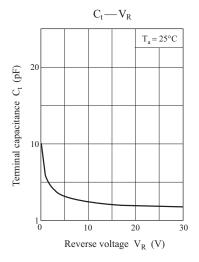
- 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
- 3. Absolute frequency of input and output is 250 MHz
- 4. \*: t<sub>rr</sub> measurement circuit



MAU2D29 Panasonic







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