## **MAU2D30**

### Silicon epitaxial planar type

For high speed switching circuits

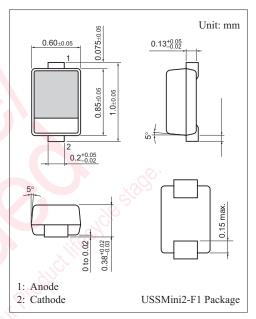
#### ■ Features

- Optimum for high-density mounting
- Extremely low reverse current I<sub>R</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 (Average)	I <sub>F(AV)</sub>	100	mA	
Peak forward current	$I_{FM}$	200	mA	
Non-repetitive peak forward surge current *	$I_{FSM}$	1	A	
Junction temperature	Tj	125	°C	
Storage temperature	T <sub>stg</sub>	-55 to +125	°C	

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



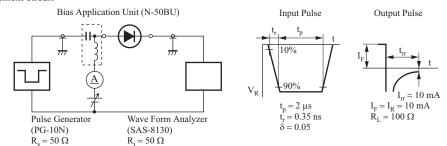
Marking Symbol: 1D

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

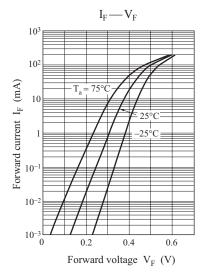
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{F1}$	$I_F = 10 \text{ mA}$	5 19	0.38	0.44	V
	$V_{F2}$	$I_F = 100 \text{ mA}$		0.51	0.58	V
Reverse current $\frac{I_{R1}}{I_{R2}}$	$I_{R1}$	$V_R = 10 \text{ V}$		),	0.3	μΑ
	$I_{R2}$	$V_R = 30 \text{ V}$	03//		2	μΑ
Terminal capacitance	$C_t$	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$		9		pF
Reverse recovery time *	t <sub>rr</sub>	$\begin{split} I_F &= I_R = 10 \text{ mA}, \ I_{rr} = 10 \text{ mA}, \\ R_L &= 100 \ \Omega \end{split}$		1		ns

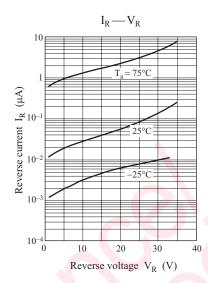
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

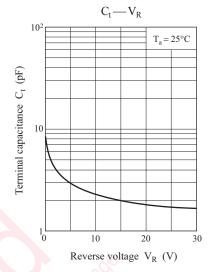
- 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
- 3. Absolute frequency of input and output is 250 MHz
- 4. \*: t<sub>rr</sub> measurement circuit



MAU2D30 Panasonic







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