# **MA2YD33**

Silicon epitaxial planar type

# For high frequency rectification

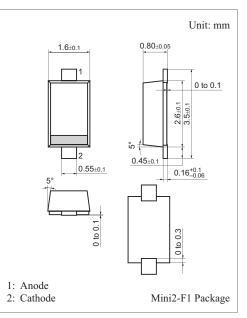
### Features

- Forward current (Average)  $I_{F(AV)} = 500 \text{ mA}$  rectification is possible
- Small reverse current I<sub>R</sub>

#### Absolute Maximum Ratings $T_a = 25^{\circ}C$

Symbol	Rating	Unit	
V <sub>R</sub>	30	V	
V <sub>RRM</sub>	30	V	
I <sub>F(AV)</sub>	500	mA	
I <sub>FSM</sub>	3	А	
Tj	125	°C	
T <sub>stg</sub>	-55 to +125	°C	
	V <sub>R</sub> V <sub>RRM</sub> I <sub>F(AV)</sub> I <sub>FSM</sub> T <sub>j</sub>	$\begin{tabular}{ c c c c c } \hline V_R & 30 \\ \hline V_{RRM} & 30 \\ \hline I_{F(AV)} & 500 \\ \hline I_{FSM} & 3 \\ \hline T_j & 125 \\ \hline \end{tabular}$	

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



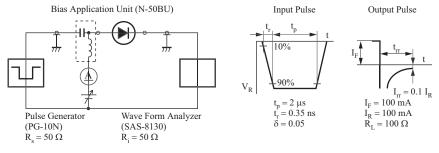
Marking Symbol: 2V

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{F1}$	$I_F = 10 \text{ mA}$		0.3	0.4	V
	$V_{F2}$	$I_F = 500 \text{ mA}$		0.5	0.55	v
Reverse current	I <sub>R</sub>	$V_{R'} = 30 V$			50	μΑ
Terminal capacitance	Ct	$V_{RJ} = 0 V, f = 1 MHz$		60		pF
Reverse recovery time *	t <sub>rr</sub>	$I_{\rm F} = I_{\rm Rl} = 100 \text{ mA}, I_{\rm rr} = 0.1 \text{ I}_{\rm R}$ $R_{\rm LJ} = 100 \Omega$		5		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<sub>rr</sub> measurement circuit



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