## MA2YD33

### Silicon epitaxial planar type

#### For high frequency rectification

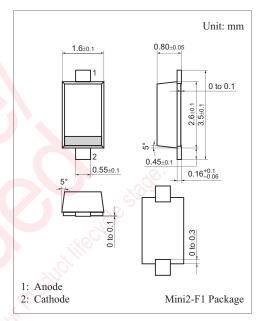
#### ■ Features

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

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

Parameter	Symbol	Rating	Unit	
Reverse voltage	$V_R$	30	V	
Repetitive peak reverse voltage	$V_{RRM}$	30	V	
Forward current (Average)	I <sub>F(AV)</sub>	500	mA	
Non-repetitive peak forward surge current *	I <sub>FSM</sub>	3	A	
Junction temperature	$T_{\rm j}$	125	°C	
Storage temperature	T <sub>stg</sub>	-55 to +125	°C	

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

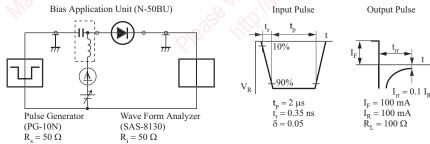


Marking Symbol: 2V

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage $V_{F1}$ $V_{F2}$	$V_{\rm Fl}$	$I_F = 10 \text{ mA}$	0.	0.3	0.4	N.
	$I_F = 500 \text{ mA}$	Politic	0.5	0.55		
Reverse current	$I_R$	$V_R = 30 \text{ V}$	OJIL .	UC.	50	μА
Terminal capacitance	$C_t$	$V_R = 0 \text{ V, } f = 1 \text{ MHz}$	705	60		pF
Reverse recovery time *	$t_{\rm rr}$	$I_F = I_R = 100 \text{ mA}, I_{rr} = 0.1 I_R$ $R_L = 100 \Omega$	1501	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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