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### **Panasonic**

## **MA2B001**

### Silicon planar type trigger device

Thyristor TRIAC trigger circuit

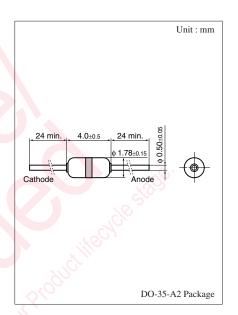
#### ■ Features

- Satisfactory symmetry of breakover voltage V<sub>BO</sub>
- $\bullet$  Large output voltage  $V_{O}$  and small breakover current  $I_{BO}$

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

Parameter	Symbol	Rating	Unit	
Power dissipation (Average)	P <sub>D(AV)</sub>	150	mW	
Peak current *1	$I_P$	2.0	A	
Operating ambient temperature *2	T <sub>opr</sub>	100	°C	
Storage temperature	$T_{stg}$	-55 to +125	°C	

Note) \*1:  $T_a < 50$ °C,  $t = 10 \mu s$ , repetitive frequency 60 Hz

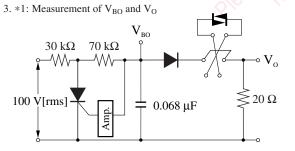


### ■ Electrical Characteristics $T_a = 25$ °C $\pm 3$ °C

Symbol	Conditions	Min	Тур	Max	Unit
$V_{BO}$	$I = I_{BO}$	28		36	V
$v_{o}$	1811 1112 1	4.0	7.0		V
$I_{BO}$	$V = V_{BO}$	,)		50	μΑ
T.C.(V <sub>BO</sub> )	10,00		0.1		%/°C
	1, 10, 1913				
$\Delta V_{BO}$	isl whi			3.5	V
	$V_{BO}$ $V_{O}$ $I_{BO}$ $T.C.(V_{BO})$	$V_{BO} \qquad I = I_{BO}$ $V_{O} \qquad \qquad$	$\begin{array}{c cccc} V_{BO} & I = I_{BO} & 28 \\ V_{O} & 4.0 \\ I_{BO} & V = V_{BO} \\ T.C.(V_{BO}) & & & \\ \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

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

2. Absolute frequency of input and output is 100 MHz.

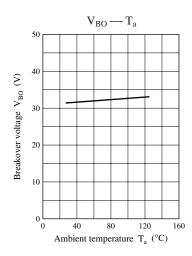


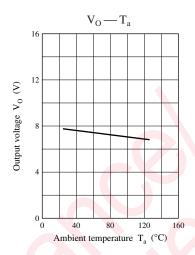
\*2: Symmetry of  $V_{BO}$ 

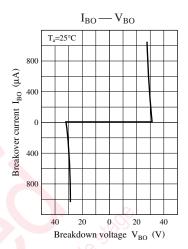


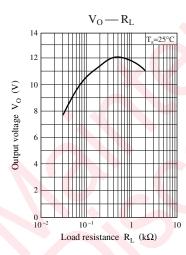
<sup>\*2:</sup> Maximum ambient temperature during operation

## **Panasonic**









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