

**TRIGGER DIODES**

**DELIVERY**

Antistatic film : 2500 devices per reel.

**APPLICATIONS**

Thyristors and triacs triggering.

**ADVANTAGES**

High reliability glass passivation insuring parameter stability and protection against junction contamination



**ABSOLUTE RATINGS** (limiting values)

Symbol	Parameter	Value	Unit
P	Power Dissipation (1)	$T_a = 50\text{ }^\circ\text{C}$ 150	mW
$I_{TRM}$	Repetitive Peak on-state Current	$t_p = 20\text{ }\mu\text{s}$ $F = 100\text{ Hz}$ 2	A
$T_{stg}$ $T_j$	Storage and Operating Junction Temperature Range	- 40 to 125 - 40 to 110	$^\circ\text{C}$ $^\circ\text{C}$

**THERMAL RESISTANCES**

Symbol	Parameter	Value	Unit
$R_{th(j-a)}$	Junction-ambient (1)	400	$^\circ\text{C/W}$
$R_{th(j-l)}$	Junction Tie-point	300	$^\circ\text{C/W}$

(1) Mounted ceramic substrate of 10 mm x 10 mm x 0.6 mm.

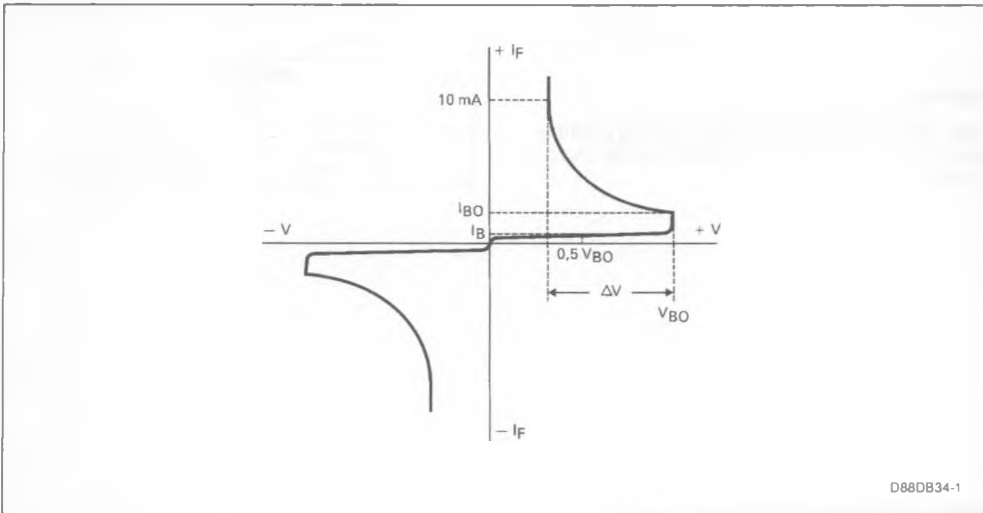
**ELECTRICAL CHARACTERISTICS** ( $T_j = 25\text{ }^\circ\text{C}$ )

Symbol	Parameter	Test Conditions	Types	Min.	Typ.	Max.	Unit
$V_{BO}$	Breakover Voltage*	$C = 22\text{ nF}^{**}$ See diagram 1	TMMDB3	28	32	36	V
$[ +V_{BO} - V_{BO} ]$	Breakover Voltage Symmetry	$C = 22\text{ nF}^{**}$ See diagram 1				$\pm 3$	V
$ \Delta V_{\pm} $	Dynamic Breakback Voltage*	$\Delta I = [I_{BO} \text{ to } I_F = 10\text{ mA}]$ See diagram 1		5			V
$V_O$	Output Voltage*	See diagram 2		5			V
$I_{BO}$	Breakover Current*	$C = 22\text{ nF}^{**}$				100	$\mu\text{A}$
$t_r$	Rise Time*	See diagram 3			1.5		$\mu\text{s}$
$I_B$	Leakage Current*	$V_B = 0.5 V_{BO}$ max See diagram 1				10	$\mu\text{A}$

\* Electrical characteristic applicable in both forward and reverse directions.

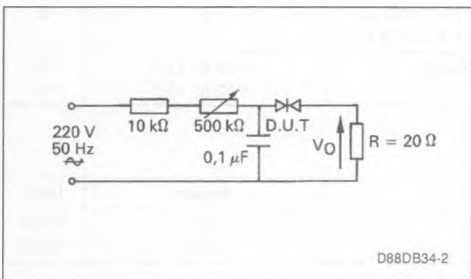
\*\* Connected in parallel with the device.

**DIAGRAM 1** : Current-voltage characteristics.



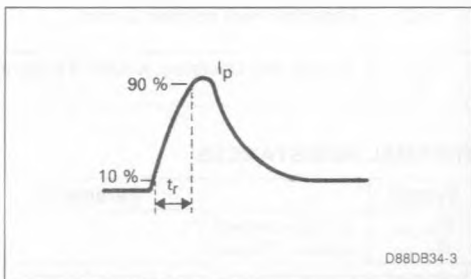
D88DB34-1

**DIAGRAM 2** : Test circuit for output voltage.



D88DB34-2

**DIAGRAM 3** : Test circuit see diagram 2.  
Adjust R for  $I_p = 0.5\text{ A}$ .



D88DB34-3

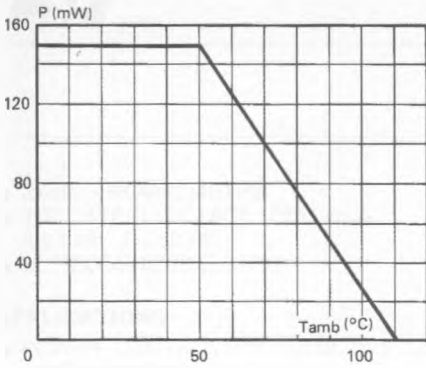


Fig. 1 - Power dissipation versus ambient temperature (maximum values).

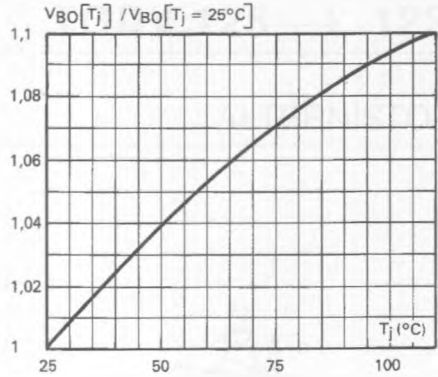


Fig. 2 - Relative variation of VBO versus junction temperature (typical values).

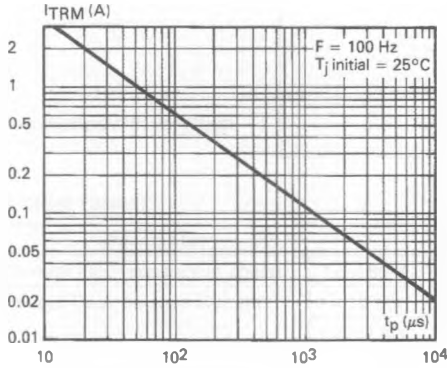


Fig. 3 - Peak pulse current versus pulse duration (maximum values).

**PACKAGE MECHANICAL DATA**

MINIMELF

