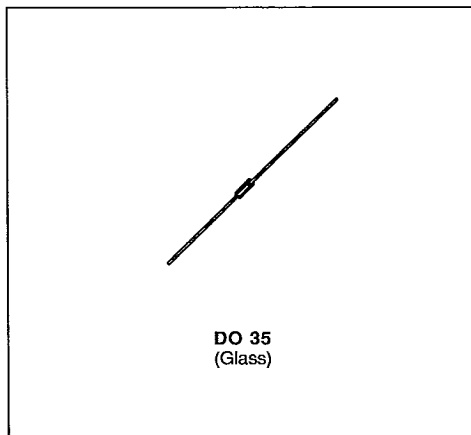


APPLICATIONS

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 on Printed Circuit (L = 10 mm)	$T_a = 50\text{ }^{\circ}\text{C}$	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

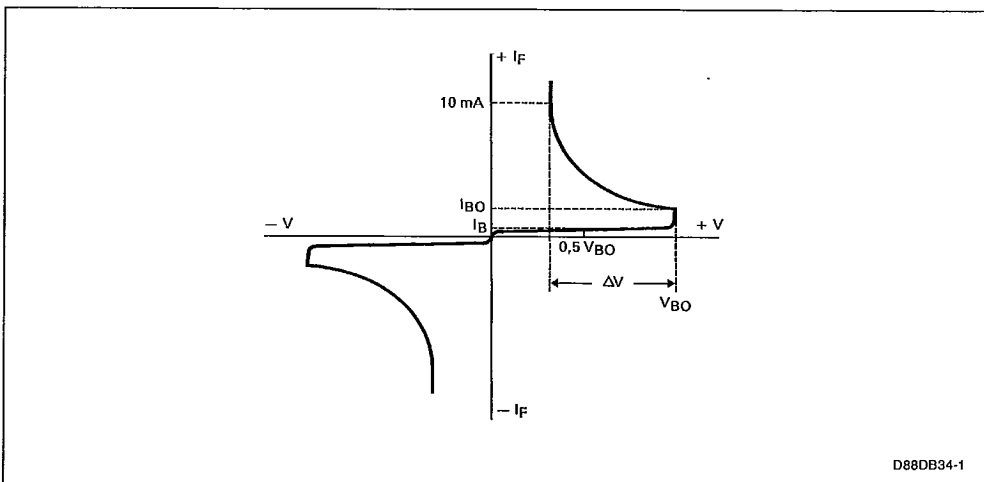
Symbol	Parameter	Value	Unit
$R_{th(j-a)}$	Junction-ambient	400	$^{\circ}\text{C/W}$
$R_{th(j-l)}$	Junction-leads	150	$^{\circ}\text{C/W}$

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

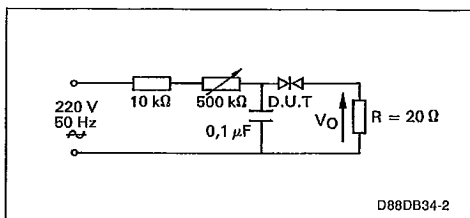
Symbol	Parameter	Test Conditions	Types	Min.	Typ.	Max.	Unit
V_{BO}	Breakover Voltage*	C = 22 nF** See diagram 1	DC34	30	34	38	V
			DC38	35	38	42	
			DC42	39	42	45	
$[+V_{BO} - -V_{BO}]$	Breakover Voltage Symmetry	C = 22 nF** See diagram 1				± 3	V
$ \Delta V_{\pm} $	Dynamic Breakback Voltage*	$\Delta I = [I_{BO} \text{ to } I_F = 10\text{ mA}]$ See diagram 1		5			V
V_O	Output Voltage*	See diagram 2		5			V
I_{BO}	Breakover Current*	C = 22 nF**				50	μA
t_r	Rise Time*	See diagram 3			1.5		μs
I_B	Leakage Current*	$V_B = 0.5 V_{BO}$ max See diagram 1				10	μA

* Electrical characteristic applicable in both forward and reverse directions.

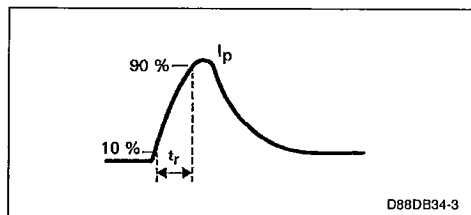
** Connected in parallel with the device.

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

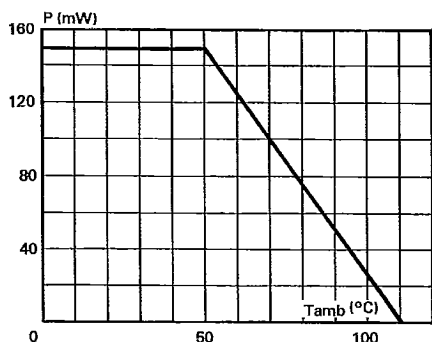


Fig. 1 - Power dissipation versus ambient temperature (maximum values).

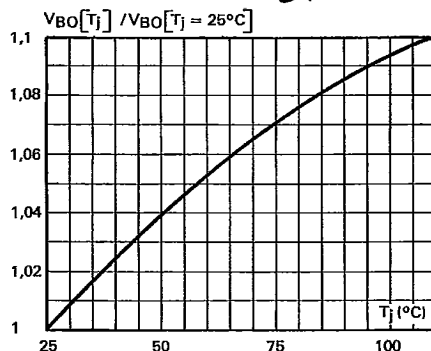


Fig. 2 - Relative variation of V_{BO} versus junction temperature (typical values).

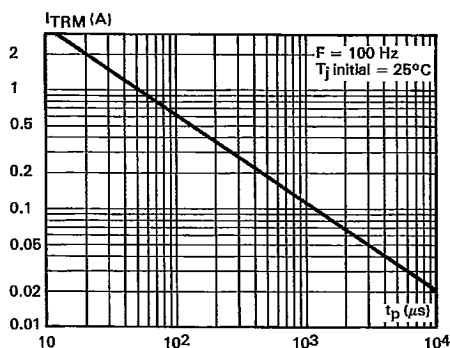
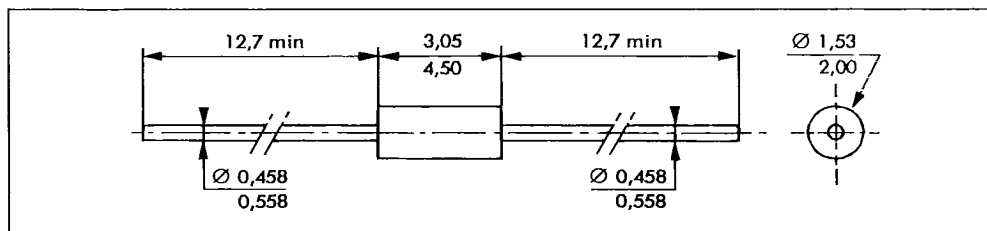


Fig. 3 - Peak pulse current versus pulse duration (maximum values).

PACKAGE MECHANICAL DATA

DO 35 Glass



Weight : 0.15 g.
Marking : clear.