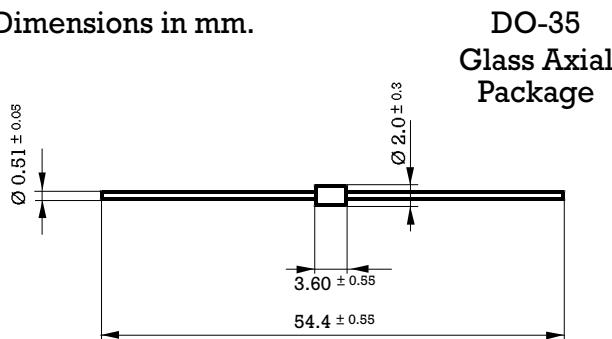


DIAC

Dimensions in mm.

DO-35
Glass Axial
Package

- Silicon bi-directional trigger device intended for use in thyristor (SCR and TRIAC) trigger circuits, energy saving lighting circuits and other switching functions.

BREAKOVER VOLTAGE ON-STATE CURRENT
32 V 2.0 Amps

Mounting instructions

1. Min. distance from body to soldering point, 4 mm.
2. Max. solder temperature, 250 °C.
3. Max. soldering time, 3.5 sec.
4. Do not bend lead at a point closer than 2 mm. to the body.

SPECIAL FEATURES:

- Low breakover current.
- Excellent symmetry.
- Very low leakage current.

MARKING CODE

PI

Absolute Maximum Ratings, according to IEC publication No. 134

	PARAMETER	CONDITIONS	Min.	Typ.	Max.	Unit
P _{tot}	Total Power Dissipation	T _a = 65 °C			150	mW
I _{TRM}	Repetitive peak on-state current	t _p = 20 µs, f = 100 Hz			2	A
T _{stg}	Storage Temperature Range		-40		+125	°C
T _j	Operating Junction Temperature		-40		+125	°C

Thermal Resistance

	PARAMETER	CONDITIONS	Min.	Typ.	Max.	Unit
R _{th(j-a)}	Junction to Ambient			400		°C/W
R _{th(j-l)}	Junction to leads			150		°C/W

Electrical Characteristics at Tamb = 25 °C

	PARAMETER	CONDITIONS	Min.	Typ.	Max.	Unit
V _{BO}	Breakover Voltage *	I _{BO} , C = 22nF ** (see Figure 1)	28	32	36	V
V _{BO+} - -V _{BO-}	Breakover Voltage Symmetry	I _{BO} , C = 22nF ** (see Figure 1)			± 3	V
V _±	Dynamic breakover voltage *	I = [I _{BO} to I _F = 10 mA] (see Figure 1)	5			V
V _O	Output Voltage *	(see Figure 3)	5			V
I _{BO}	Breakover Current *	C = 22 nF **			50	µA
tr	Rise Time *	(see Figure 4)		1.5		µs
I _B	Leakage Current *	V _B = 0.5 V _{BO} max (see Figure 1)			10	µA
I _P	Peak Current *	see Figure 3 (Gate)	0.3			A

* Applicable to both forward and reverse directions.

** Connected in parallel with the devices.

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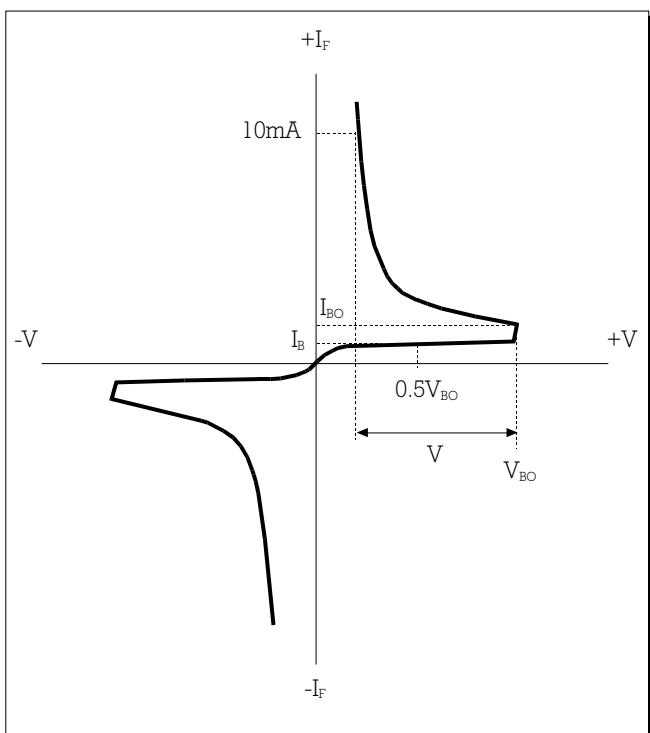


FIGURE 1: Current-Voltage Characteristics

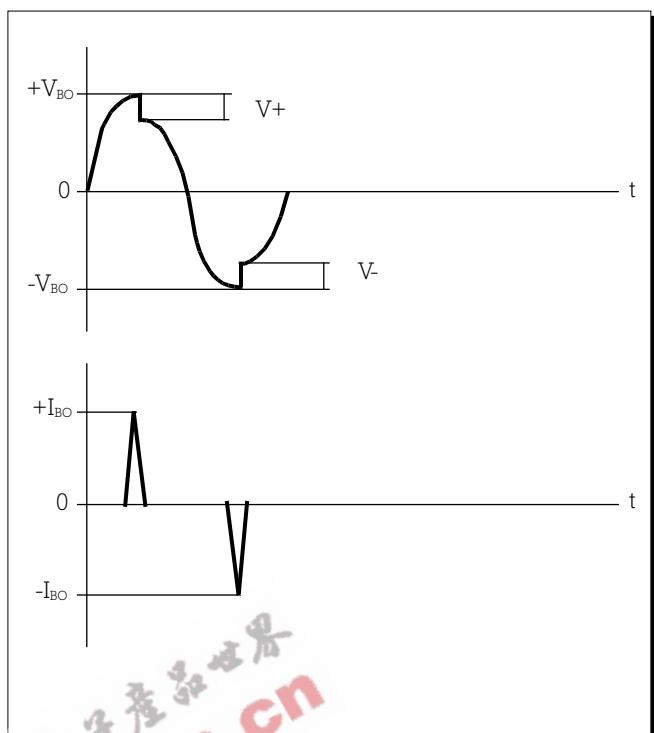


FIGURE 2

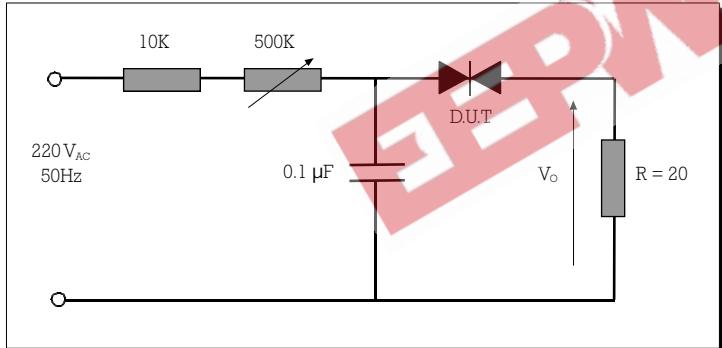


FIGURE 3: Test Circuit for Output Voltage.

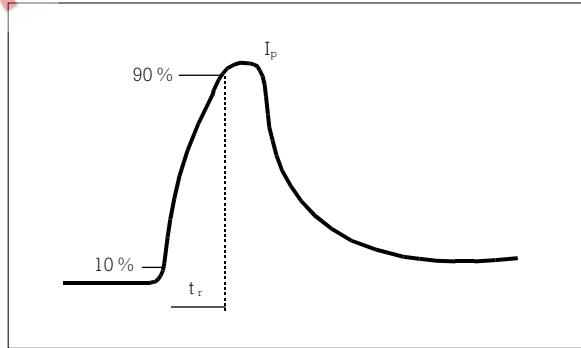


FIGURE 4: Test circuit see Figure 3. Adjust R for $I_p = 0.5 A$

PART NUMBER INFORMATION

