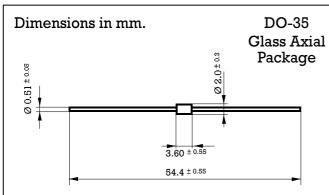


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Mounting instructions

- 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.

 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

SPECIAL FEATURES:

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

MARKING CODE	Pl

Absolute Maximum Ratings, according to IEC publication No. 134

	PARAMETER	CONDITIONS	Min.	Тур.	Max.	Unit
P _{tot}	Total Power Dissipation	Ta = 65 °C			150	mW
I_{TRM}	Repetitive peak on-state current	$tp = 20 \ \mu s, f = 100 \ Hz$			2	А
$T_{ m stg}$	Storage Temperature Range		-40		+125	°C
T_{j}	Operating Junction Temperature		-40		+125	°C

Thermal Resistance

	PARAMETER	CONDITIONS	Min.	Тур.	Max.	Unit
$R_{th (j-a)}$	Junction to Ambient			400		°C/W
$R_{ ext{th (j-l)}}$	Junction to leads			150		°C/W

Electrical Characteristics at Tamb = 25 °C

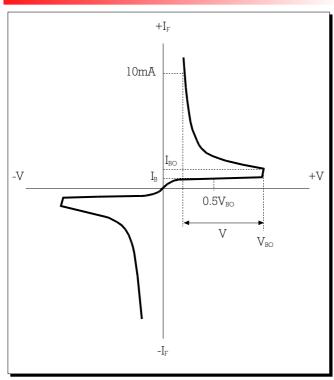
	PARAMETER	CONDITIONS	Min.	Тур.	Max.	Unit
$V_{\scriptscriptstyle BO}$	Breakover Voltage *	I_{BO} , $C = 22nF ** (see Figure 1)$	28	32	36	V
$ V_{BO^+} - V_{BO^-} $	Breakover Voltage Symmetry	I_{BO} , $C = 22nF ** (see Figure 1)$			± 3	V
V±	Dynamic breakover voltage *	$I = [I_{BO} \text{ to } I_F = 10 \text{ mA}]$ (see Figure 1)	5			V
Vo	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 *	$V_B = 0.5 V_{BO} \text{ max}$ (see Figure 1)			10	μA
$ m 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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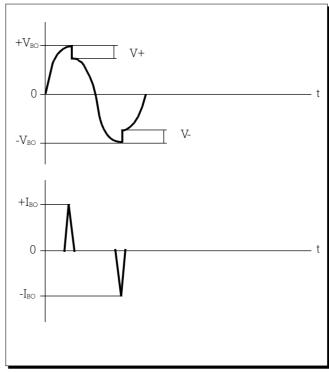
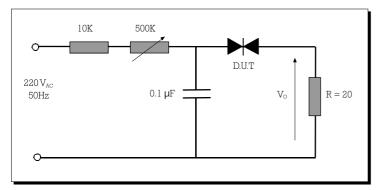


FIGURE 1: Current-Voltage Characteristics

FIGURE 2



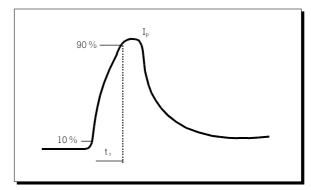


FIGURE 3: Test Circuit for Output Voltage.

FIGURE 4: Test circuit see Figure 3. Adjust R for $\rm\,I_{P}=0.5~A$

PART NUMBER INFORMATION

