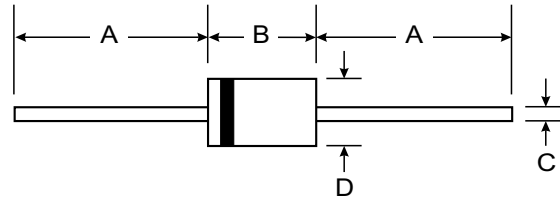


## Features

- Three way layer two terminal, axial lead , hermetically sealed diacs are designed specifically for riggering thyrisitors .The demonstrate low breakover current. The breakover symmetry is within three volts(DB3,DB4) or four volts(DB6).These diacs are intended for use in thyrisitors phase control.,circuits for lamp dimming universal motor speed control and heat control



DO-35		
Dim	Min	Max
A	25.40	—
B	—	4.00
C	—	0.60
D	—	2.00
All Dimensions in mm		

## Mechanical Data

- Case: DO-35

## Maximum Ratings and Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

PARAMETERS	SYMBOL	VALUE			UNITS		
		DB3	DB4	DB6			
Power Dissipation on Printed Circuit(L=10mm) T <sub>A</sub> =50°C	P <sub>c</sub>	150			mW		
Repetitive Peak on-state Current T <sub>p</sub> =10μS f=100Hz	I <sub>TRM</sub>	2.0			A		
Storage and Operating Junction Temperature	T <sub>STG</sub> /T <sub>J</sub>	-44 to+125/-40 to+110			°C		
PAPRAMETERS	SYMBOLS	TEST CONDITIONS	VALUE			UNITS	
			DB3	DB4	DB6		
Breakover Voltage*	V <sub>BO</sub>	C=22nf** See Diagram 1	Min	28	35	56	V
			Typ	32	40	60	
			Max	36	45	70	
Breakover Voltage Symmetry	1+V <sub>BO1</sub> - 1-V <sub>BO1</sub>	C=22nf** See Diagram 1	Max	3		V	
Dynamic Breakover Voltage	1 ΔV <sub>1</sub>	ΔI=(I <sub>BO</sub> to I <sub>F</sub> =10mA) See FIG 1	Min	5		V	
Output Voltage*	V <sub>O</sub>	See FIG 2	Min	5		V	
Breakover Current*	I <sub>BO</sub>	C=22nf**	Max	100		μA	
Rise Time*	t <sub>r</sub>	See FIG 3	Typ	1.5		μS	
Leakage Current*	I <sub>B</sub>	I <sub>B</sub> =0.5 V <sub>BO</sub> MAX See FIG 3	Max	10		μA	

NOTE:\* Electrical characteristics applicable in both forward and reverse directions.

\*\* Connected in parallel with the devices.



FIG.1-CURRENT-VOLTAGE CHARACTERISTICS

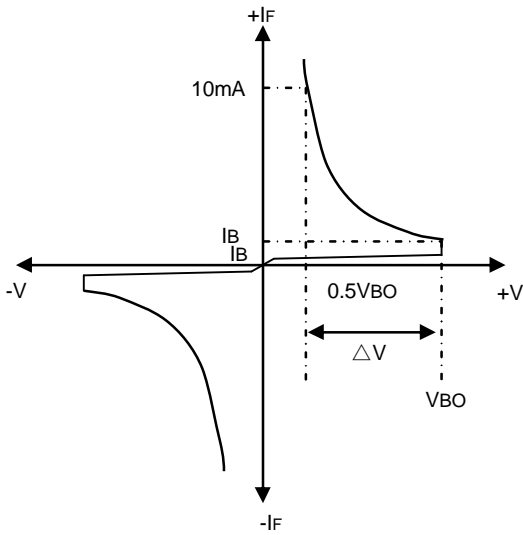


FIG.2-TEST CIRCUIT FOR OUTPUT VOLTAGE

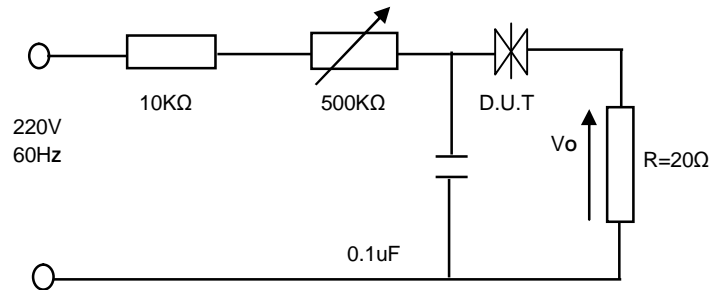


FIG.3-TEST CIRCUIT SEE FIG.2 ADJUST R FOR  $I_p=0.5A$

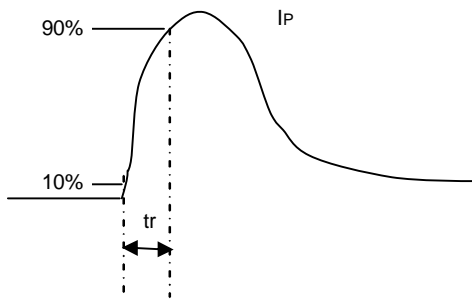


FIG.4-TEST CIRCUIT FOR OUTPUT

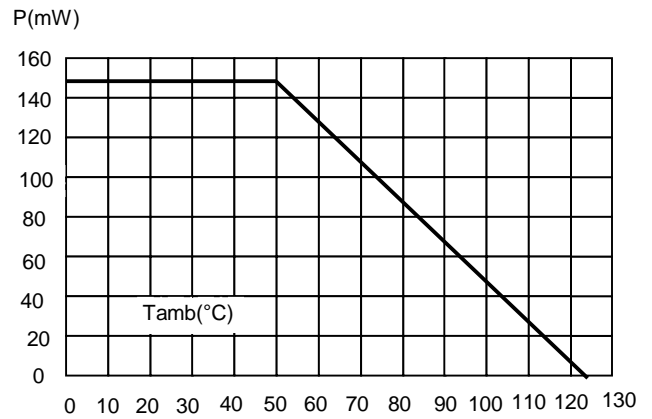


FIG.5-RELATIVE VARIATION OF VBO VERSUS JUNCTION TEMPERATURE(TYPICAL VALUES)

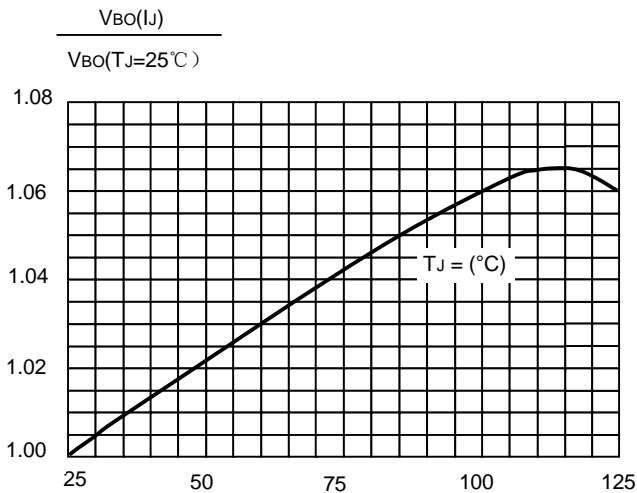


FIG.6-PEAK PULSE CURRENT VERSUS PULSE DURATION (MAXIMUM VALUES)

