

## Features

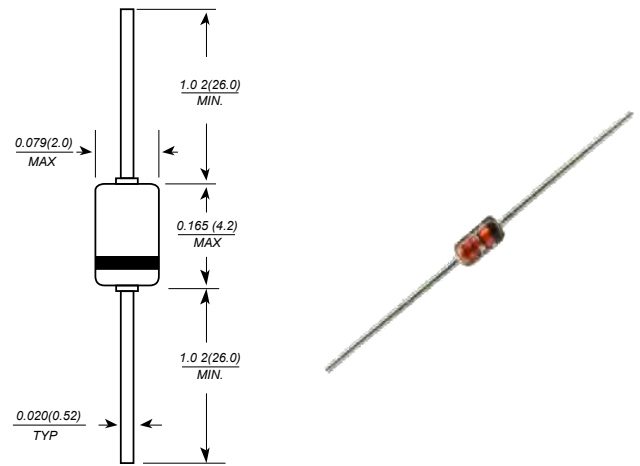
- Threewaylayer two terminal, axiallead , hermeticallysealeddiacsaredesignedspecifically for riggering thyrisitors .Thedemonstratelowbreakovercurrent. Thebreakoversymmetry iswithin threevolts(DB3,DB4) or fourvoltsDB6.Thesediacsareintended for or fourvoltsDB6.Thesediacsareintended for dimminguniversalmotorspeedcontrolandheat control

## Mechanical Data

- Case: DO-35, glass case
- Polarity: Color band denotes cathode
- Weight: 0.004 ounces, 0.13 grams



## DO-35(GLASS)



Dimensions in millimeters

## Absolute Ratings

Characteristic	Symbol	value			Unit
		DB3	DB4	DB6	
Power Dissipation on Printed Circuit(L=10mm) $T_A=50^{\circ}\text{C}$	$P_c$	150			mW
Repetitive Peak on-state Current $T_p=10\mu\text{S}$ $f=100\text{Hz}$	$I_{TRM}$	2.0			A
Storage and perating Juntion Temperature	$T_{STG/TJ}$	-44 to+125/-40 to+110			$^{\circ}\text{C}$

## Electrical Characteristics

Characteristic	Symbol	Conditions	value			Unit	
			DB3	DB4	DB6		
BreakoverVoltage*	$V_{BO}$	$C=22\text{nf}^{**}$ See Diagram 1	Min	28	35	56	V
			Typ	32	40	60	
			Max	36	45	70	
BreakoverVoltageSymmetry	$1+V_{BO1}$ - $1-V_{BO1}$	$C=22\text{nf}^{**}$ See Diagram 1	Max	3		V	
DynamicBreakoverVoltage	$1 \Delta V_1$	$\Delta I=(I_{BO} \text{ to } I_F=10\text{mA})$ See FIG 1	Min	5		V	
Output Voltage*	$V_O$	See FIG 2	Min	5		V	
BreakoverCurrent*	$I_{BO}$	$C=22\text{nf}^{**}$	Max	100		$\mu\text{A}$	
RiseTime*	$t_r$	See FIG 3	Typ	1.5		$\mu\text{S}$	
LeakageCurrent*	$I_B$	$I_B=0.5 V_{BO} \text{ MAX}$ See FIG 3	Max	10		$\mu\text{A}$	

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

\*\* Connected in parallel with the devices.



FIG.1-CURRENT-VOLTAGE CHARACTERISTICS

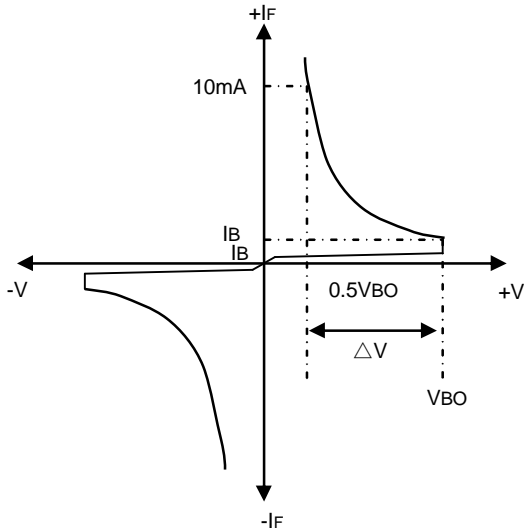


FIG.2-TEST CIRCUIT FOR OUTPUT VOLATGE

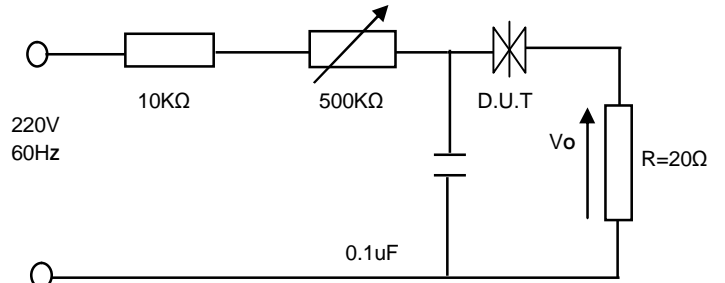


FIG.3-TEST CIRCUIT SEE FIG.2 ADJUST R FOR  $I_p=0.5A$

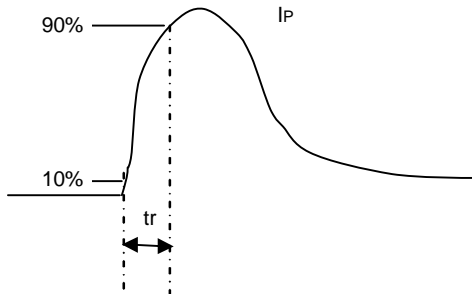


FIG.4-TEST CIRCUIT FOR OUTPUT

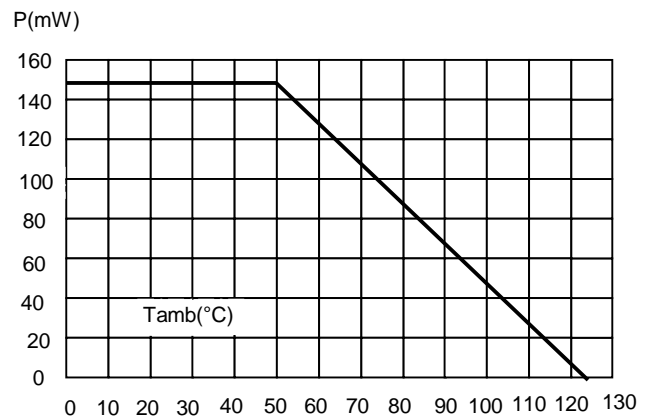


FIG.5-RELATIVE VARIATION OF VBO VERSUS JUNCTION TEMPERATURE(TYPICAL VALUES)

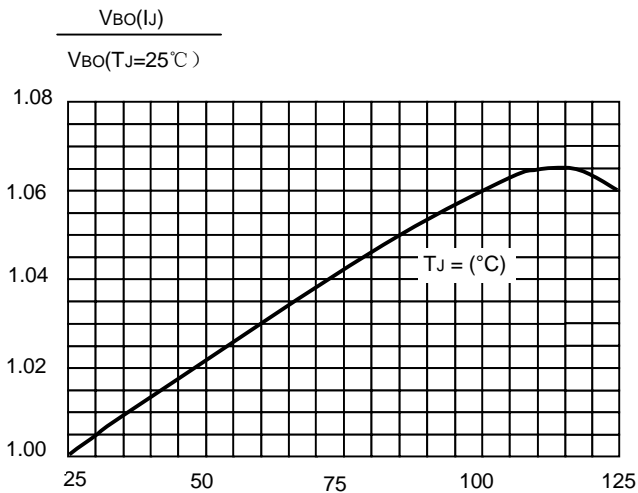


FIG.6-PEAK PULSE CURRENT VERSUS PULSE DURATION (MAXIMUM VALUES)

