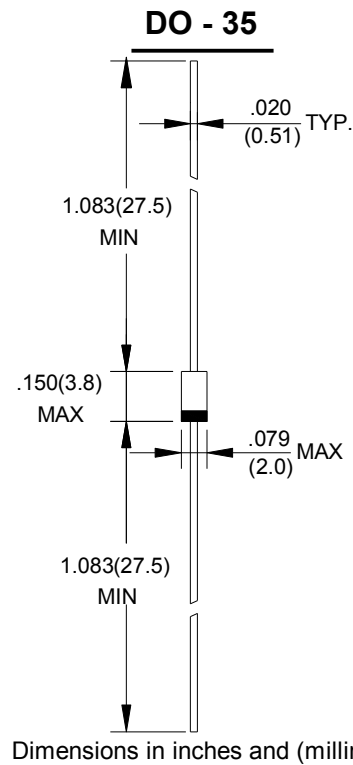


SILICON BIDIRECTIONAL DIACS	POWER DISSIPATION 150 mW
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FEATURES

- Three way layer two terminal, axial lead , hermetically sealed diacs are designed specifically for triggering thyristors .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 thyristors phase control ,circuits for lamp dimming universal motor speed control and heat control
- This diode is also available in the DO-35case.


ABSOLUTE RATINGS

PARAMETERS	SYMBOL	VALUE			UNITS
		DB3	DB4	DB6	
Power Dissipation on Printed Circuit(L=10mm) $T_A=50^{\circ}C$	P_c	150			mW
Repetitive Peak on-state Current $T_p=10\mu S$ $f=100Hz$	I_{TRM}	2.0			A
Storage and Operating Junction Temperature	T_{STG}/T_J	-44 to+125/-40 to+110			$^{\circ}C$

ELECTRICAL CHARACTERISTICS

PARAMETERS	SYMBOLS	TEST CONDITIONS	VALUE			UNITS	
			DB3	DB4	DB6		
Breakover Voltage*	V_{BO}	C=22nf** See Diagram 1	Min	28	35	56	V
			Typ	32	40	60	
			Max	36	45	70	
Breakover Voltage Symmetry	$1+V_{BO1}$ $1-V_{BO1}$	C=22nf** See Diagram 1	Max	± 3		V	
Dynamic Breakover Voltage	$1\pm\Delta V_1$	$\Delta I=(I_{BO} \text{ to } I_F=10mA)$ See FIG 1	Min	5		V	
Output Voltage*	V_O	See FIG 2	Min	5		V	
Breakover Current*	I_{BO}	C=22nf**	Max	100		μA	
Rise Time*	t_r	See FIG 3	Typ	1.5		μS	
Leakage Current*	I_B	$I_B=0.5 V_{BO} \text{ MAX}$ 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

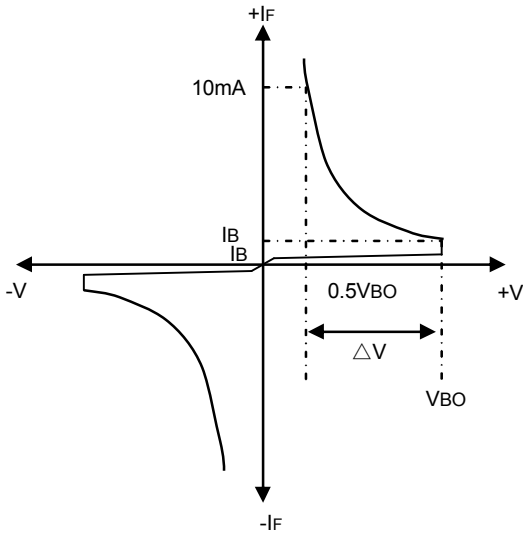


FIG.2-TEST CIRCUIT FOR OUTPUT VOLTAGE

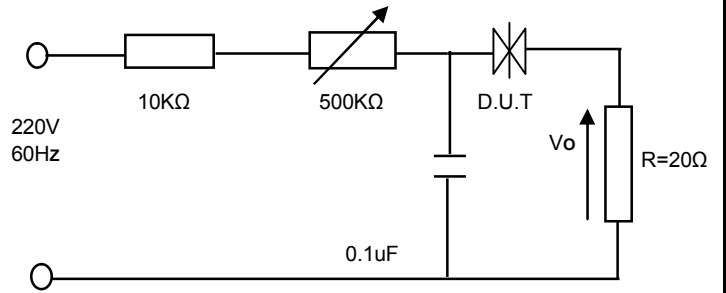


FIG.3-TEST CIRCUIT SEE FIG.2 ADJUST R FOR $I_p=0.5A$

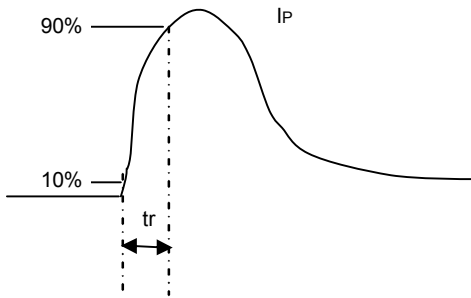


FIG.4-TEST CIRCUIT FOR OUTPUT

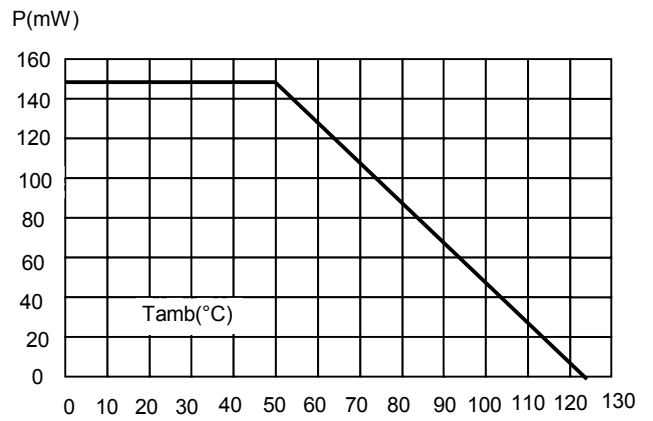


FIG.5-RELATIVE VARIATION OF V_{BO} VERSUS JUNCTION TEMPERATURE(TYPICAL VALUES)

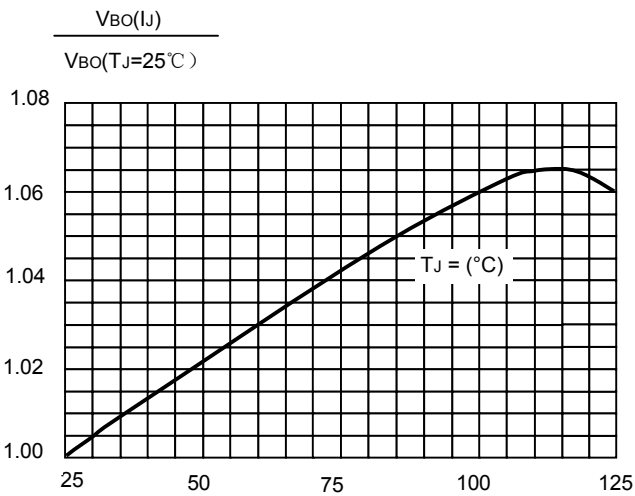


FIG.6-PEAK PULSE CURRENT VERSUS PULSE DURATION (MAXIMUM VALUES)

