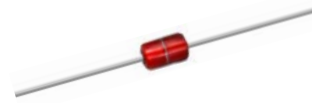
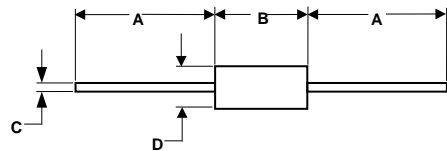


Features

- * The three layer, two terminal, axial lead, hermetically sealed diacs are designed specifically for triggering thyristors.
- * Moisture Sensitivity: Level 1
- * These diacs are intended for use in thyristors phase control , circuits for lamp dimming, universal motor speed control ,and heat control.Type number is marked.



Package Outline Dimensions



Mechanical Data

- * Low cost probe assemblies
- * High temperature printer ink sensing
- * Consumer electronics
- * High temperature – high speed tire manufacturing
- * Printed circuit board temperature sensing
- * Air-conditioner

DO-35				
DIM.	Unit (inch)		Unit (mm)	
	Min	Max	Min	Max
A	1	---	25.4	---
B	0.114	0.200	2.9	5.08
C	0.013	0.024	0.34	0.6
D	0.051	0.090	1.3	2.28

Maximum Ratings (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE			UNITS
		DB3	DB4	DB6	
Power Dissipation on Printed Circuit(L=10mm) TA=50°C	PC	150			mW
Repetitive Peak on-state tp=20us	ITRM	2			A
Current f=100 Hz					
Storage and Operating Junction Temperature	TSTG/TJ	-40 to +125/ -40 to +110			°C

Electrical Characteristics (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	VALUE			UNITS	
			DB3	DB4	DB6		
Breakover Voltage •	VBo	C=22nf" See Diagram 1	Min	28	35	56	V
			TYP	32	40	60	
			Max	36	45	70	
Breakover Voltage Symmetry	$\frac{ +V_{BO} - -V_{BO} }{ +V_{BO} + -V_{BO} }$	C=22nf**See Diagram 1	Max	±3		V	
Dynamic Breakover Voltage	$ \pm \Delta V $	LI(Iso to IF 10mA) See FIG1	Min	5		V	
Output Voltage •	Vo	See FIG2	Min	5		V	
Breakover Current •	IBo	C=22nF **	Max	50		uA	
Rise Time'	tr	See FIG3	Typ	2		uS	
Leakage Current •	Ib	Is =0.5 Vso max See FIG 3	Max	10		uA	

NOTE: 1. Electrical characteristics applicable in both forward and reverse directions.
 2. Connected in parallel with the devices.

Typical Performance Characteristics

FIG.1 - CURRENT-VOLTAGE CHARACTERISTICS

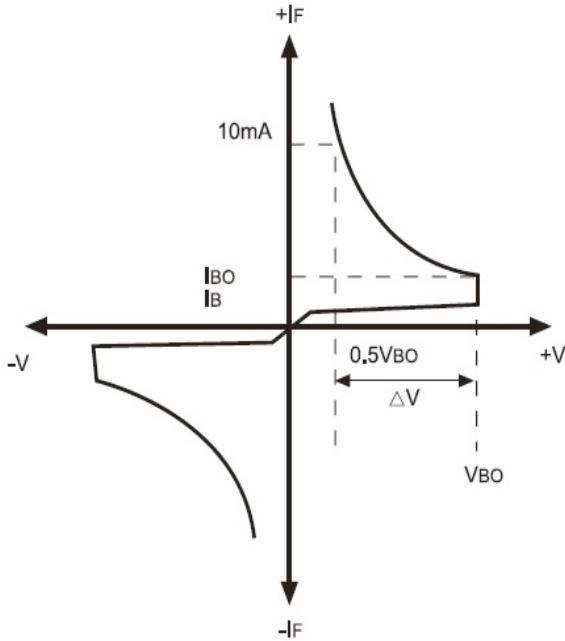


FIG.2 - TEST CIRCUIT FOR OUTPUT VOLTAGE

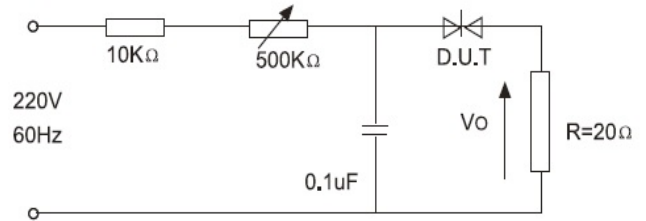


FIG.3-TEST CIRCUIT SEE FIG.2 ADJUSTR FOR $I_p=0.5A$

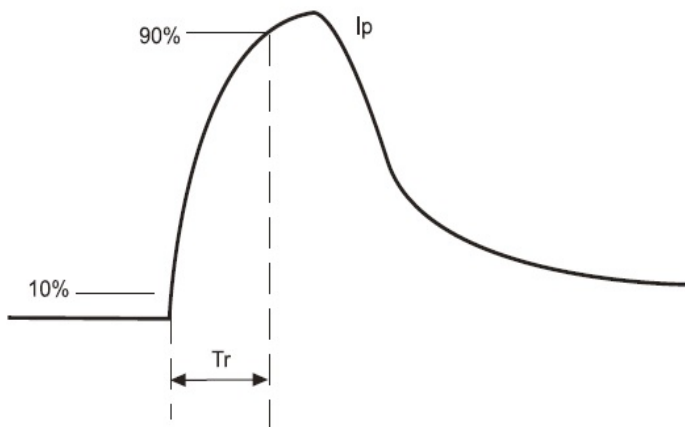


FIG.2 - TEST CIRCUIT FOR OUTPUT VOLTAGE

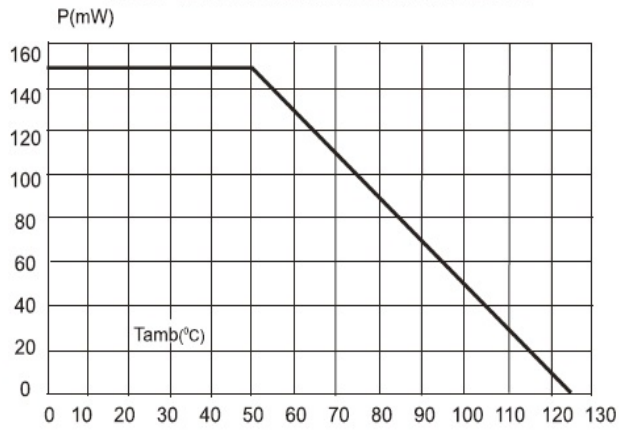


FIG.5 - RELATIVE VARIATION OF V_{BO} VERSUS JUNCTION TEMPERATURE(TYPICAL VALUES)

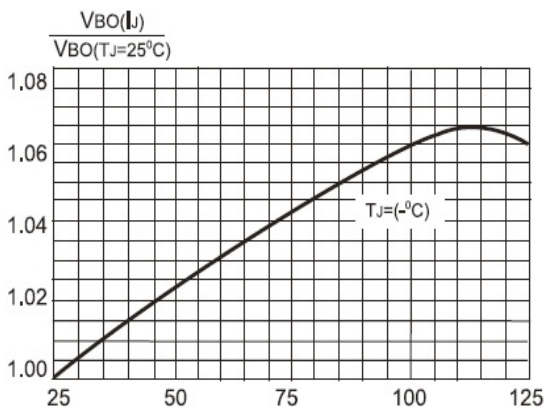
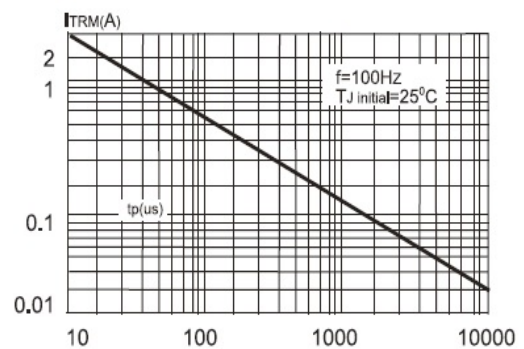


FIG.6 - PEAK PULSE CURRENT VERSUS PULSE DURATION(MAXIMUM VALUES)





DB3 DB4 DB6
SILICON BIDIRECTIONAL DIACS

Ordering Information

Part No.	Package	Packing Code	Packing
DB3 DB4 DB6	DO-35	R	5Kpcs/Reel
DB3 DB4 DB6	DO-35	A	5Kpcs/Ammo Box

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