



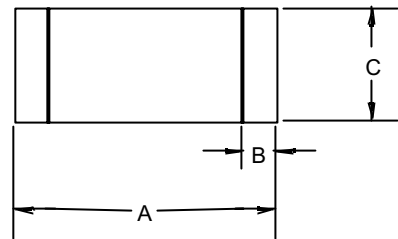
Micro Commercial Components



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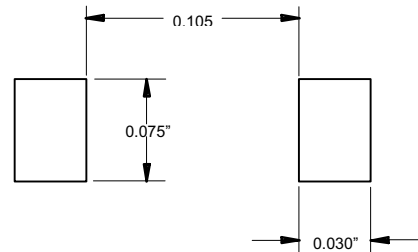
LLDB4

**SILICON
BIDIRECTIONAL
DIAC**

MINIMELF

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.134	.142	3.40	3.60	
B	.008	.016	.20	.40	
C	.055	.059	1.40	1.50	Ø

SUGGESTED SOLDER PAD LAYOUT



Features

- The three layer, two terminal, axial lead, hermetically sealed diacs are designed specifically for triggering thyristors.
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Moisture Sensitivity: Level 1 per J-STD-020C
- These diacs are intended for use in thyristors phase control , circuits for lamp dimming, universal motor speed control ,and heat control.

Maximum Ratings

- Operating Temperature: -40°C to +110°C
- Storage Temperature: -40°C to +125°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Power dissipation on Printed Circuit (l=10mm)	P_C	150mW	$T_A=50^\circ\text{C}$
Repetitive Peak on-state Current	I_{TRM}	2.0A	$t_p=10\mu\text{s}, f=100\text{Hz}$
Breakover Voltage	V_{BO}	Min Typ Max 35 40 45V	$C=22\text{nF}$ (Note 3)
Breakover Voltage Symmetry	$ +V_{BO} $ $ -V_{BO} $	$\pm 3V$	$C=22\text{nF}$ (Note 3)
Output Voltage(Note 2)	$V_{o(min)}$	5V	
Breakover Current(Note 2)	$I_{BO(max)}$	100uA	$C=22\text{nF}$
Rise Time(Note 2)	T_r	1.5us	
Leakage Current(Note 2)	$I_{B(max)}$	10uA	$V_B=0.5V_{BO(max)}$

- Note: 1. Lead in Glass Exemption Applied, see EU Directive Annex 7(C)-I.
2. Electrical characteristics applicable in both forward and reverse directions.
3. Connected in parallel with the devices.

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DIAGRAM 1: Current-voltage characteristics

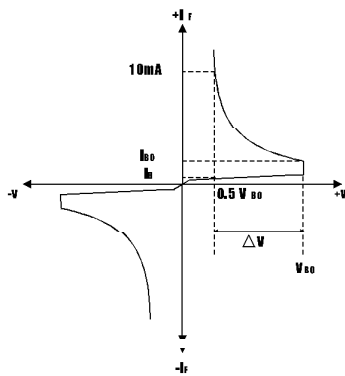


DIAGRAM 2: Test circuit for output voltage

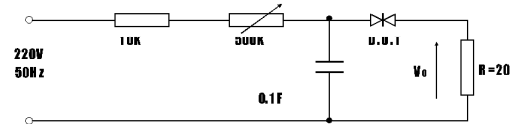


DIAGRAM 3: Test circuit see diagram2 adjust R for $I=0.5A$

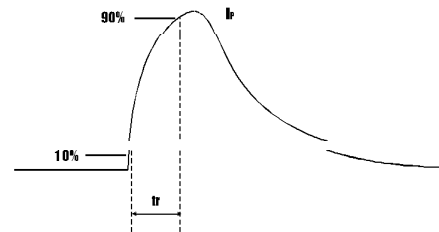


FIG.1-Power dissipation versus ambient temperature (maximum values)

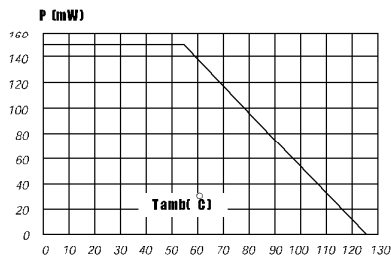


FIG.3-Peak pulse current versus pulse duration (maximum values)

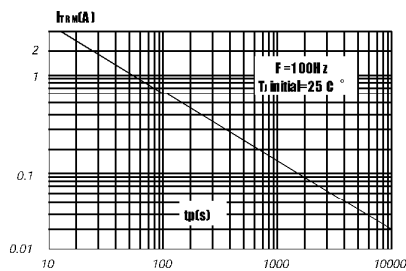
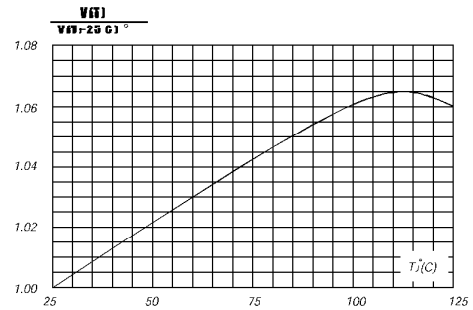


FIG.2-Relative variation of V_{BO} versus junction temperature (typical values)



Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

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