NOT RECOMMENDED FOR NEW DESIGNS



Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

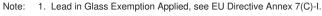
- The three layer, two terminal, axial lead, hermetically sealed diacs are designed specifically for triggering thyristors.
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Moisture Sensitivity: Level 1 per J-STD-020C
- These diacs are intended for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

Bectrical Characteristics @25°CUnless Cherwise Specified

Power dissipation on Printed Circuit(I=10mm)	P _c	150mW	T _A =50°C
Repetitive Peak on-state Current	I _{TRM}	2.0A	t _p =10us,f=100Hz
Breakover Voltage		Min Typ Max	
	V _{BO}	35 40 45V	C=22nF(Note 3)
Breakover Voltage Symmetry	+V _{BO} - -V _{BO}	±3V	C=22nF(Note 3)
Output Voltage(Note 2)	$V_{o(min)}$	5V	
Breakover Current(Note 2)	I _{BO(max)}	100uA	C=22nF
Rise Time(Note 2)	T _r	1.5us	
Leakage Current(Note 2)	I _{B(max)}	10uA	$V_B = 0.5 V_{BO(max)}$

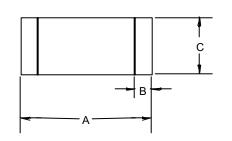


2. Electrical characteristics applicable in both forward and reverse directions.

Connected in parallel with the devices.

www.mccsemi.com

DIAC MINIMELF

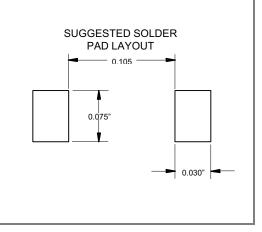


LLDB4

SILICON

BIDIRECTIONAL

DIMENSIONS							
	INCHES		ММ				
DIM	MIN	MAX	MIN	MAX	NOTE		
А	.134	.142	3.40	3.60			
В	.008	.016	.20	.40			
С	.055	.059	1.40	1.50	Ø		



Revision: B



LLDB4

DIAGRAM 1: Current-voltage characteristics

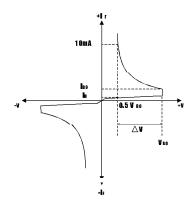


FIG.1-Power dissipation versus ambient temperature (maximum values)

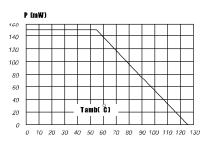
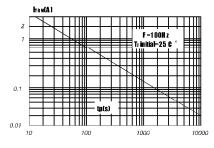


FIG.3-Peak pulse current versus pulse duration (maximum values)



DLAGR AM 2: T est circuit for output voltage

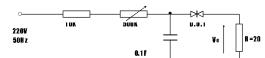


DIAGRAM 3: T est aircuit see alagram2 adjust R for I=0:5A

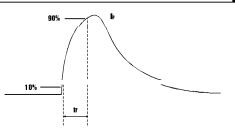
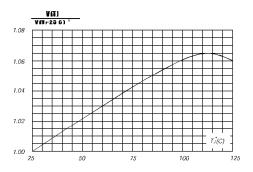


FIG.2-Relative variation of VBO versus junction temperature(typical values)



www.mccsemi.com



Ordering Information :

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

*****IMPORTANT NOTICE*****

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

www.mccsemi.com