

## **Excellent Integrated System Limited**

Stocking Distributor

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[Micro Commercial Components \(MCC\)](#)  
[LLDB3-TP](#)

For any questions, you can email us directly:

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**MCC**

Micro Commercial Components



Micro Commercial Components  
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## Features

- Breakover Voltage: 32V
- Breakover Voltage Range: 28V to 36V
- Lead Free Finish/RoHS Compliant (Note 3) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

## Maximum Ratings

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

## Electrical Characteristics @ 25°C Unless Otherwise Specified

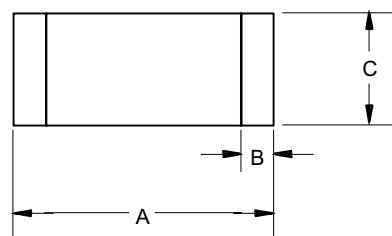
Power dissipation on Printed Circuit( $l=10\text{mm}$ )	$P_c$	150mW	$T_A=50^\circ\text{C}$
Repetitive Peak on-state Current	$I_{TRM}$	2.0A	$t_p=20\text{us}, f=120\text{Hz}$
Breakover Voltage	$V_{BO}$	Min Typ Max 28 32 36V	$C=22\text{nF}$ (Note 2)
Breakover Voltage Symmetry	$ +V_{BO} $	$\pm 3\text{V}$	$C=22\text{nF}$ (Note 2)
Output Voltage(Note 1)	$V_{o(\min)}$	5V	
Breakover Current(Note 1)	$I_{BO(\max)}$	50uA	$C=22\text{nF}$
Rise Time(Note 1)	$T_r$	2.0us	
Leakage Current(Note 1)	$I_{B(\max)}$	10uA	$V_B=0.5V_{BO(\max)}$

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

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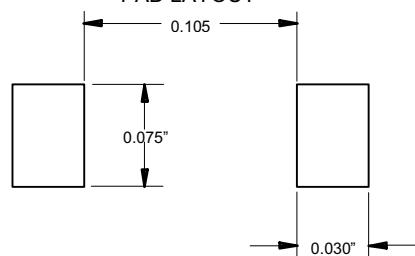
**SILICON  
BIDIRECTIONAL  
DIAC**

**MiniMELF**



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.130	.146	3.30	3.70	
B	.008	.016	.20	.40	
C	.055	.059	1.40	1.50	Ø

### SUGGESTED SOLDER PAD LAYOUT

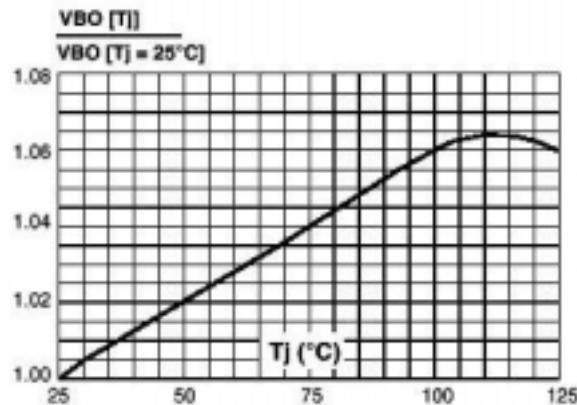


# LLDB3

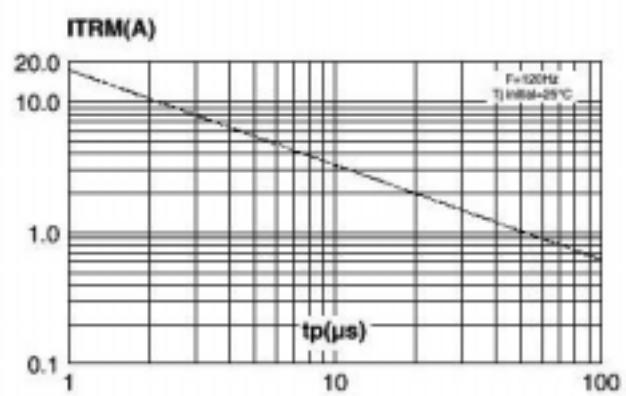
**M.C.C.**

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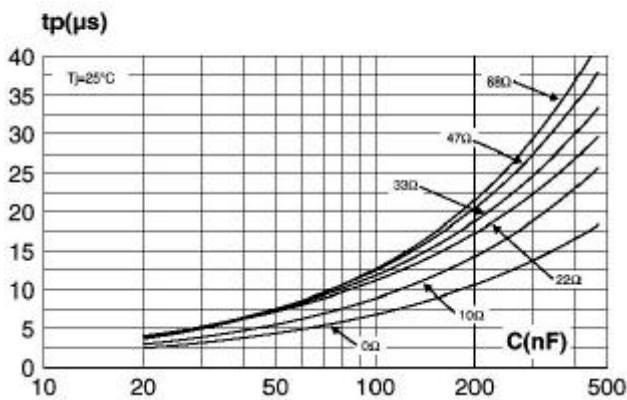
**Fig. 1:** Relative variation of VBO versus junction temperature (typical values)



**Fig. 2:** Repetitive peak pulse current versus pulse duration (maximum values).



**Fig. 3:** Time duration while current pulse is higher 50mA versus C and Rs (typical values).





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**Ordering Information :**

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

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