



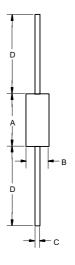
Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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DB3A

SILICON BIDIRECTIONAL DIAC

A-405



DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.166	.205	4.10	5.20			
В	.080	.107	2.00	2.70			
С		.024		.60			
D	1.000		25.40				

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 RoHS Compliant. See ordering information)
- High temperature soldering guaranteed
- 250 C/10 seconds,0.375" (9.5mm) lead length,
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

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	Pc	150mW	
Circuit(I=10mm)			T _A =65°C
Repetitive Peak			
on-state Current	I _{TRM}		
DB3,DC34,DB4		2.0A	
DB6		16A	t _p =10us,f=100Hz
Breakover Voltage		Min Typ Max	
	V _{BO}	28 32 36V	C=22nF(Note 3)
D 1 1/1			
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)}	100µA	C=22nF
Rise Time(Note 2)	T _r	1.5µs	
Leakage Current(Note 2)	I _{B(max)}	10µA	$V_B = 0.5 V_{BO(max)}$

lote: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

- 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

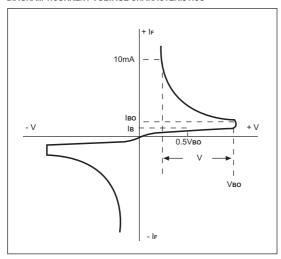


DIAGRAM 2:TEST CIRCUIT OUTPUT VOLTAGE

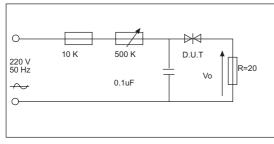


DIAGRAM 3:TEST CIRCUIT SEE DIAGRAM 2.ADJUST R FOR IP=0.5A

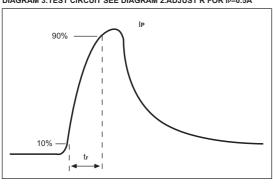


FIG. 1-POWER DISSIPATION VERSUS AMBIENT TEMPERATURE(MAXIMUM VALUES)

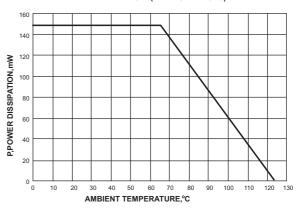


FIG. 2-PEAK PULSE CURRENT VERSUS PULSE DURATION (MAXIMUM VALUES)

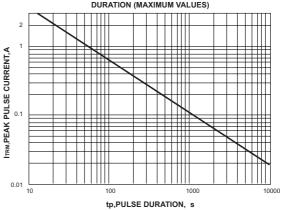
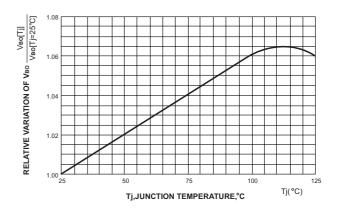


FIG. 3-RELATIVE VARIATION OF V_{BO} VERSUS JUNCTION TEMPERATURE(TYPICAL VALUES)



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Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 5Kpcs/Reel

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