Micro Commercial Components
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DB3A

SILICON BIDIRECTIONAL DIAC

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

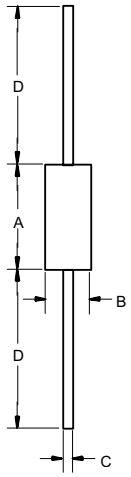
- Operating Temperature: -40°C to +110°C
- Storage Temperature: -40°C to +125°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Power dissipation on Printed Circuit(l=10mm)	P_C	150mW	T_A=65°C
Repetitive Peak on-state Current DB3,DC34,DB4 DB6	I_{TRM}	2.0A 16A	t_p=10us,f=100Hz
Breakover Voltage	V_{BO}	Min Typ Max 28 32 36V	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$V_{BO(max)}$

Note: 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.

A-405



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.166	.205	4.10	5.20	
B	.080	.107	2.00	2.70	
C	---	.024	---	.60	
D	1.000	---	25.40	---	

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DIAGRAM 1:CURRENT-VOLTAGE CHARACTERISTICS

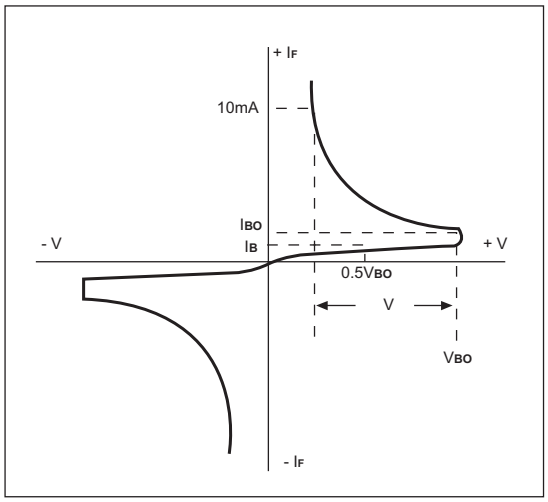


DIAGRAM 2:TEST CIRCUIT OUTPUT VOLTAGE

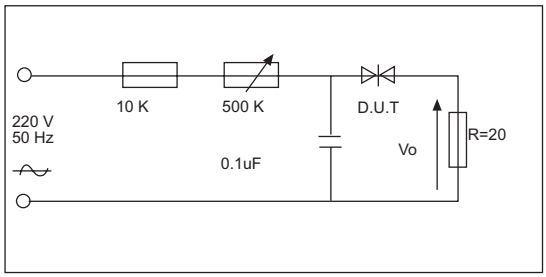


DIAGRAM 3:TEST CIRCUIT SEE DIAGRAM 2.ADJUST R FOR IP=0.5A

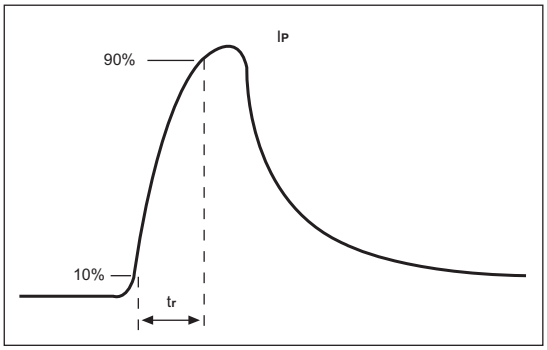


FIG. 1-POWER DISSIPATION VERSUS AMBIENT TEMPERATURE(MAXIMUM VALUES)

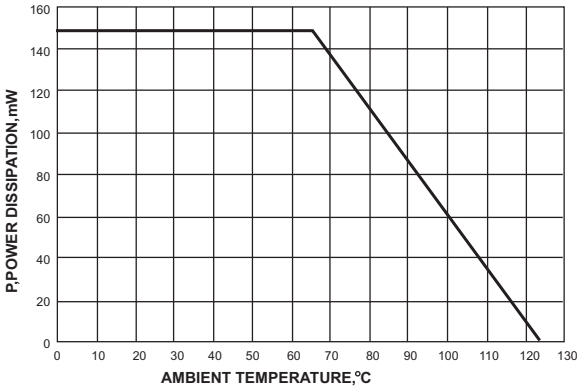


FIG. 2-PEAK PULSE CURRENT VERSUS PULSE DURATION (MAXIMUM VALUES)

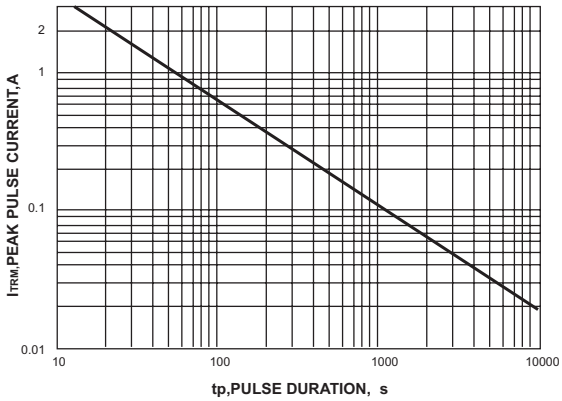
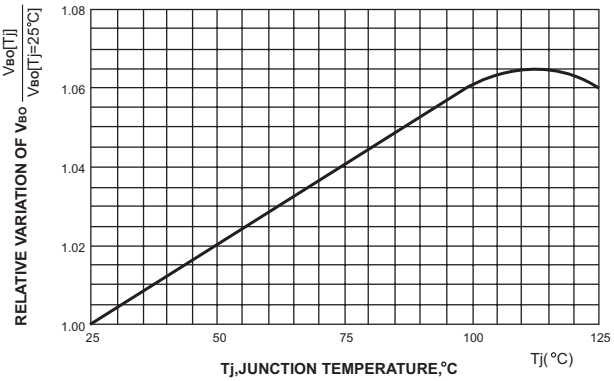


FIG. 3-RELATIVE VARIATION OF VBO VERSUS JUNCTION TEMPERATURE(TYPICAL VALUES)



Ordering Information :

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

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