

Micro Commercial Components



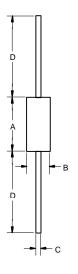
Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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DB3/DC34 AND DB4

SILICON BIDIRECTIONAL DIAC

DO-35G



DIMENSIONS								
	INCHES		ММ					
DIM	MIN	MAX	MIN	MAX	NOTE			
Α		.150		3.8				
В		.079		2.00				
С		.020		.52				
D	1.083	-	27.50					

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
- These diacs are intended for use in thyrisitors phase control, circuits for lamp dimming, universal motor speed control, and heat control. Type number is marked.

Maximum Ratings

- Operating Temperature: -40°C to +125°C
- Storage Temperature: -40°C to +125°C
- Thermal Resistance Junction to Lead:167°C/W
- Thermal Resistance Junction to Ambient: 400°C/W

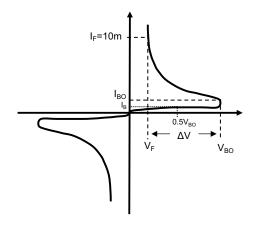
Electrical Characteristics @ 25°C Unless Otherwise Specified

Leakage Current(Note 2)	I _{B(max)}	10uA	$V_B=0.5V_{BO(max)}$
Rise Time(Note 2)	T_r	1.5us	
Breakover Current(Note 2)	I _{BO(max)}	100uA	C=22nF
Output Voltage(Note 2)	V _{o(min)}	5V	
Breakover Voltage Symmetry DB3, DC34, DB4	+V _{BO} - -V _{BO}	±3V	C=22nF(Note 3)
Dynamic Breakover Voltage(Note 2)	Δ۷	5V(Min.)	Vво and Vғ at10mA
Breakover Voltage DB3 DC34 DB4	V_{BO}	Min Typ Max 28 32 36V 30 34 38V 35 40 45V	C=22nF(Note 3)
Repetitive Peak on-state Current DB3,DC34,DB4	I _{TRM}	2.0A	tp=10us, f=100HZ
Power dissipation on Printed Circuit(I=10mm)	P _C	150mW	T _A =65°C

- te: 1. Lead in Glass Exemption Applied, see EU Directive Annex 5.
 - 2. Electrical characteristics applicable in both forward and reverse directions.
 - 3. Connected in parallel with the devices.



Typical Performance Characteristics



 $\begin{array}{lll} \textbf{V}_{BO} & : Break-Over \ Voltage \\ \textbf{I}_{BO} & : Break-Over \ Current \\ \textbf{\Delta V} & : Dynamic \ Breakover \ Voltage \\ \textbf{I}_{B} & : Leakage \ Current \ at \ V_{B} = 0.5*V_{BO} \\ \textbf{V}_{F} & : Voltage \ at \ Current \ I_{F} = 10mA \end{array}$

Diagram 1 : Test circuit

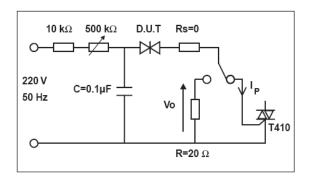


Figure 1. Admissible Power Dissipation Curve

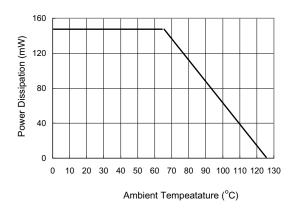


Figure 2. Relative Variation of VBO versus Junction Temperature

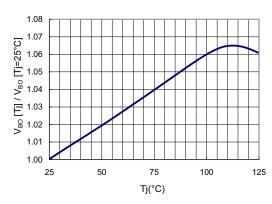
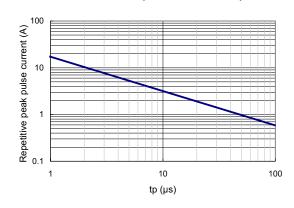


Figure 3. Repetitive Peak Pulse Current versus Pulse Duration (maximum values)





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Ordering Information:

Device	Packing	
Part Number-TP	Tape&Reel: 5Kpcs/Reel	
Part Number-AP	Ammo Packing: 5Kpcs/Ammo Box	
Part Number-BP	Bulk: 100Kpcs/Carton	

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