



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Micro Commercial Components

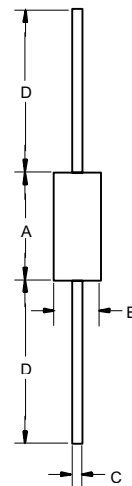


Micro Commercial Components
 20736 Marilla Street Chatsworth
 CA 91311
 Phone: (818) 701-4933
 Fax: (818) 701-4939

DB3TG

SILICON BIDIRECTIONAL DIAC

DO-35G



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
- Intended for use in thyristors phase control , circuits for lamp dimming, universal motor speed control ,and heat control.

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

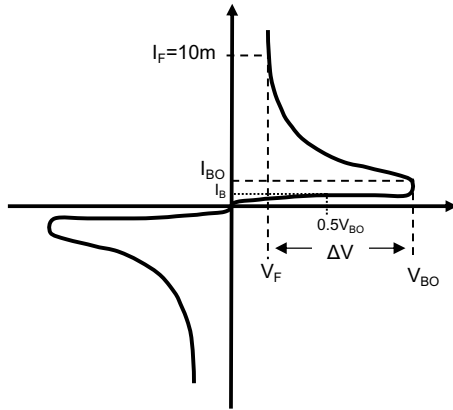
Electrical Characteristics @25°C Unless Otherwise Specified

Power dissipation on Printed Circuit(l=10mm)	P_C	150mW	$T_A=65^\circ\text{C}$
Repetitive Peak on-state Current	I_{TRM}	2.0A	$t_p=10\mu\text{s}, f=120\text{Hz}$
Breakover Voltage	V_{BO}	Min Typ Max 30 32 34V	$C=22\text{nF}(\text{Note } 3)$
Breakover Voltage Symmetry	$ +V_{BO} $ $- -V_{BO} $	$\pm 2V$	$C=22\text{nF}(\text{Note } 3)$
Output Voltage(Note 2)	$V_{o(\text{min})}$	5V	
Dynamic breakover voltage (N o t e 2)	ΔV	9V(Min)	V_{BO} and V_F at 10mA
Breakover Current(Note 2)	$I_{BO(\text{max})}$	15 μA	$C=22\text{nF}$
Rise Time(Note 2)	T_r	2 $\mu\text{s}(\text{max})$	
Leakage Current(Note 2)	$I_{B(\text{max})}$	10 μA	$V_B=0.5V_{BO(\text{max})}$

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	---	.150	---	3.8	
B	---	.079	---	2.00	
C	---	.020	---	.52	
D	1.083	---	27.50	---	

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

Typical Performance Characteristics



- V_{BO} : Break-Over Voltage
- I_{BO} : Break-Over Current
- ΔV : Dynamic Breakover Voltage
- I_B : Leakage Current at $V_B=0.5*V_{BO}$
- V_F : Voltage at Current $I_F=10mA$

Diagram 1 : Test circuit

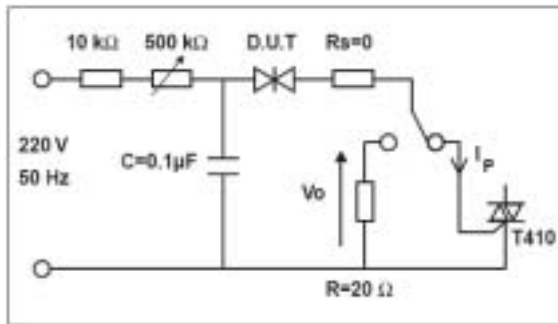


Figure 1. Admissible Power Dissipation Curve

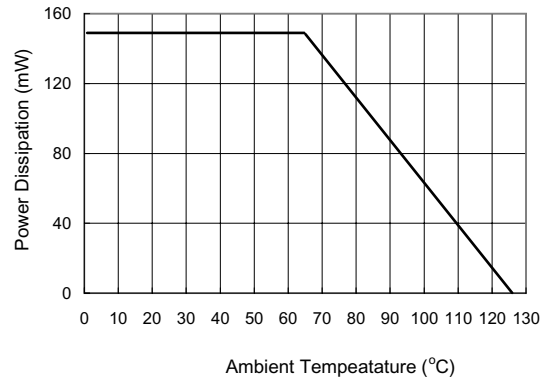


Figure 2. Relative Variation of VBO versus Junction Temperature

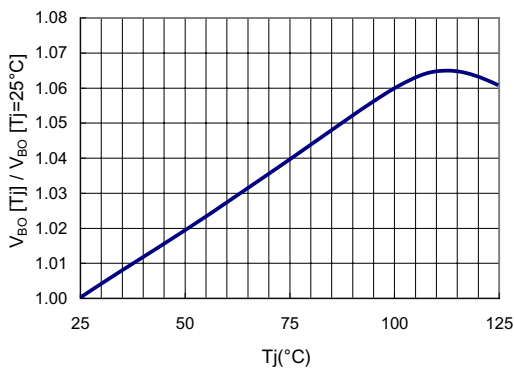
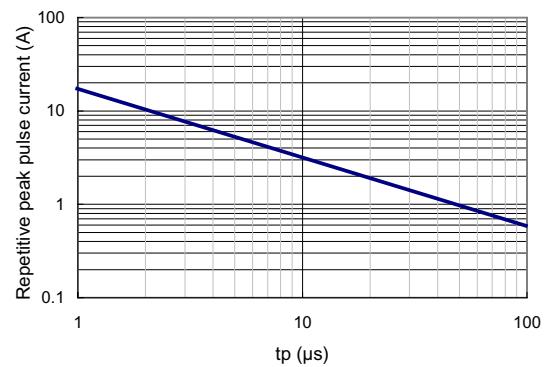


Figure 3. Repetitive Peak Pulse Current versus Pulse Duration (maximum values)





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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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