

Micro Commercial Components



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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 thyrisitors phase control, circuits for lamp dimming, universal motor speed control, and heat control.

Maximum Ratings

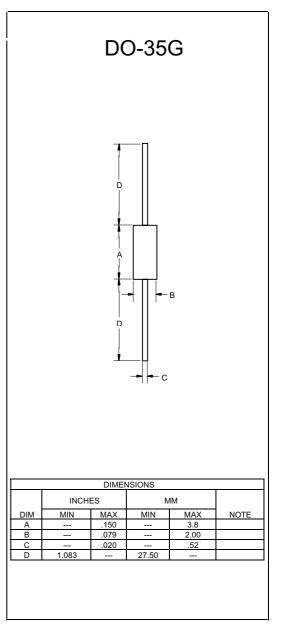
- Operating Temperature: -40°C to +125°C
- Storage Temperature: -40°C to +125°C
- Thermal Resistance Junction to Lead:167°C/W
- Thermal Resistance Junction to Ambient: 400°C/W

Electrical Characteristics @ 25°C Unless Otherwise Specified

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Power dissipation on Printed Circuit(I=10mm)	Pc	150mW	T _A =65°C
Repetitive Peak on-state Current	I _{TRM}	2.0A	t _p =10us,f=120Hz
Breakover Voltage	V _{BO}	Min Typ Max 30 32 34V	C=22nF(Note 3)
Breakover Voltage Symmetry	+V _{BO} - -V _{BO}	±2V	C=22nF(Note 3)
Output Voltage(Note 2)	$V_{o(min)}$	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(max)}	15uA	C=22nF
Rise Time(Note 2)	Τ _r	2us(max)	
Leakage Current(Note 2)	I _{B(max)}	10uA	$V_B = 0.5 V_{BO(max)}$



SILICON BIDIRECTIONAL DIAC



Note: 1. Lead in Glass Exemption Applied, see EU Directive Annex 5.

2. Electrical characteristics applicable in both forward and

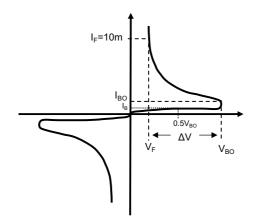
reverse directions.

3. Connected in parallel with the devices.

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Typical Performance Characteristics



Vво : Break-Over Voltage

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

Diagram 1 : Test circuit

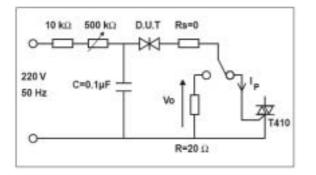


Figure 1. Admissible Power Dissipation Curve

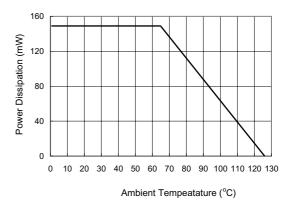


Figure 2. Relative Variation of VBO versus Junction Temperature

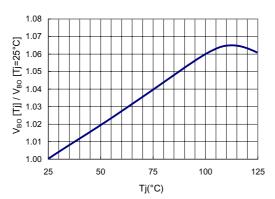
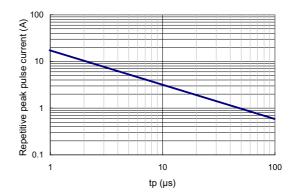


Figure 3. Repetitive Peak Pulse Current versus Pulse Duration (maximum values)



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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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