Micro Commercial Components

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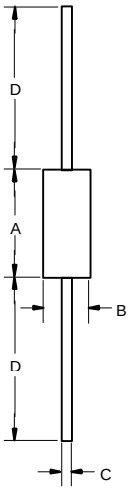
DB3/DC34 AND DB4/DB6

SILICON BIDIRECTIONAL DIAC

DO-35G



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	---	.150	---	3.8	
B	---	.079	---	2.00	
C	---	.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 per J-STD-020C
- 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 +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=50°C
Repetitive Peak on-state Current DB3,DC34,DB4 DB6	I_{TRM}	2.0A 16A	t_p=10us,f=100Hz
Breakover Voltage DB3 DC34 DB4 DB6	V_{BO}	Min Typ Max 28 32 36V 30 34 38V 35 40 45V 56 60 70V	C=22nF(Note 3)
Breakover Voltage Symmetry DB3, DC34, DB4 DB6	$\|+V_{BO}\|$ -$\|-V_{BO}\|$	±3V ±4V	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. 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.

RATINGS AND CHARACTERISTIC CURVES DB3/DC34/DB4/DB6

DIAGRAM 1: Current-voltage characteristics

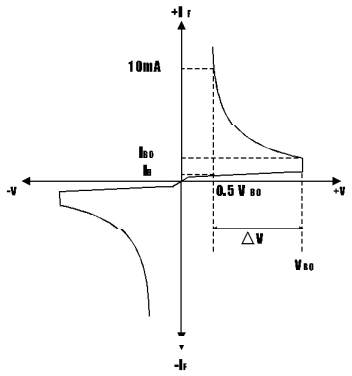


DIAGRAM 2: Test circuit for output voltage

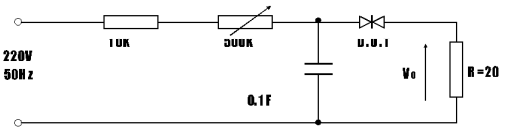


DIAGRAM 3: Test circuit see diagram2 adjust R for I=0.5A

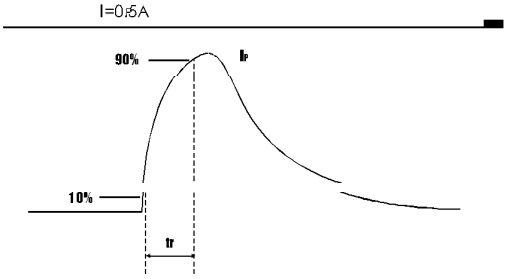


FIG.1-Power dissipation versus ambient temperature (maximum values)

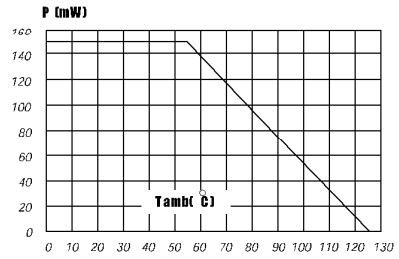


FIG.2-Relative variation of VBO versus junction temperature(typical values)

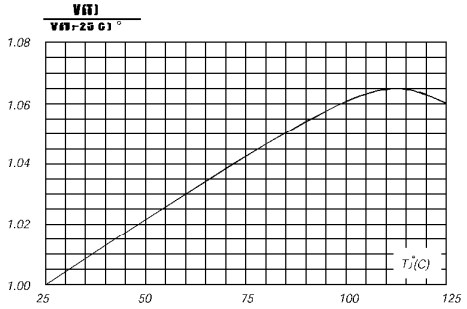
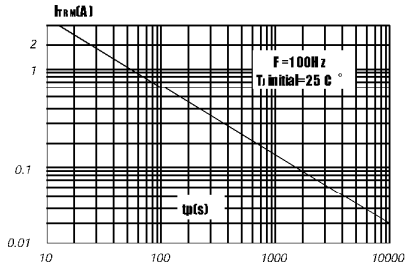


FIG.3-Peak pulse current versus pulse duration (maximum values)



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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel; 10Kpcs/Reel
(Part Number)-AP	Ammo Packing;5Kpcs/AmmoBox
(Part Number)-BP	Bulk;500pcs/Bag