



DB3 THRU DB6

SILICON BIDIRECTIONAL DIAC

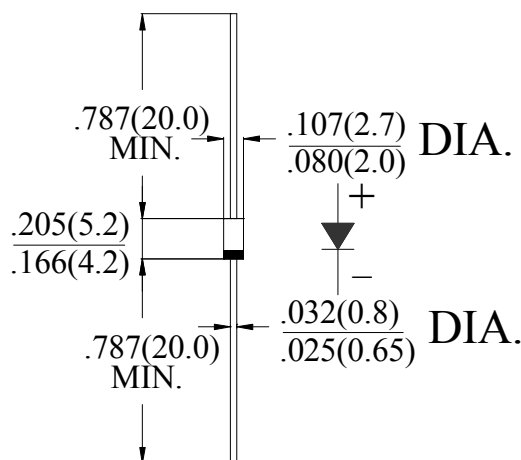
FEATURES

- The three layer, two terminal, axial lead, hermetically sealed diacs are designed specifically for triggering thyristors.
- They demonstrate low breakover current at breakover voltage as they withstand peak pulse current,
- The breakover symmetry is within three volts (DB3,DB34,DB4) or our volts(DB5,DB6).
- These diacs are intended for use in thyristors phase control , circuits for lamp dimming, universal motor speed control ,and heat control. °C

MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: MIL-STD- 202E, Method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.33 grams

DO-41



Dimensions in inches and (millimeters)

ABSOLUTE RATINGS(LIMITING VALUES)

Symbols	Parameter		Value					Unit
			DB3	DB34	DB4	DB5	DB6	
PC	Power Dissipation on Printed Circuit(L=10mm)	TA=50 °C	150					Mw
I_{TRM}	Repetitive Peak on-state m Current	tp=10s F=100Hz	2	2	2	1.6	1.6	A
T_{STG}/T_J	Storage and Operating Junction Temperature		-40 to+125/-40 to 110					°C

ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Test Conditions		DB3	DB34	DB4	DB5	DB6	Unit
Breakover voltage*	V_{BO}	C=22nF**	MIN	28	30	35	45	56	V
			TYP	32	34	40	50	60	V
			MAX	36	38	45	55	70	V
Breakover voltage symmetry	$IV_{BO1}-IV_{BO2}$	C = 22nF **	MAX	3			4		V
Dynamic breakover voltage *	$\triangle V$	V _{BO} and V _F at 10mA	MIN	5			10		V
Output voltage *	V_{BO}	Output voltage *	MIN	5					V
Breakover current *	I_{BO}	Breakover current *	MAX	50					u A
Rise time *	tr	Rise time *	MAX	2					u S
Leakage current *	I_R	Leakage current *	MAX	10					u A
Peak current *	I_P	Peak current *	MIN	0.3					A

* Applicable to both forward and reverse directions.

** Connected in parallel to the device.