DB4

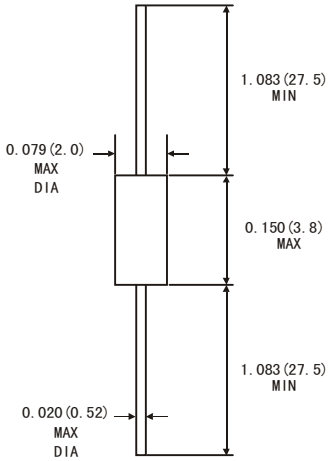
SILICON BIDIRECTIONAL DIAC

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

DB4 are bi-directional trigged diode designed to operate in conjunction with Triacs and SCR's

DO-35(GLASS)



Dimensions in inches and (millimeters)

ABSOLUTE RATINGS(LIMITING VALUES)

Symbols	Parameters		Value				Units
					DB4		
P_C	Power Dissipation on Printed Circuit(L=10mm)	T_A=50°C	150				mW
I_{TRM}	Repetitive Peak on-state Current	tp=10μs F=100Hz	2.0	2.0	2.0	16	A
T_{STG}/T_J	Storage and Operating Junction Temperature		-40 to +125/-40 to 110				℃

ELECTRICAL CHARACTERISTICS

Symbols	Parameters	Test Conditions		Value				Units
						DB4		
V_{BO}	Breakover Voltage (Note 2)	C=22nF(Note 2) See diagram 1	Min			35		V
			Typ			40		
			Max			45		
$\lvert +V_{BO} \rvert - \lvert -V_{BO} \rvert$	Breakover Voltage Symmetry	C=22nF(Note 2) See diagram 1	Max	±3			–	V
$\lvert \pm \Delta V \rvert$	Dynamic Breakover Voltage (Note1)	ΔI=(I_{BO} to IF=10mA) See Diagram 1	Min	5				V
V_O	Output Voltage (Note 1)	See Diagram 2	Min	5				V
I_{BO}	Breakover Current (Note1)	C=22nF(Note 2)	Max	100				μA
tr	Rise Time (Note1)	See Diagram 3	Typ	1.5				μS
I_B	Leakage Current (Note1)	V_B=0.5 V_{BO} max see diagram 1	Max	10				μA

Notes: 1.Electrical characteristics applicable in both forward and reverse directions.
2.Connected in parallel with the devices.

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