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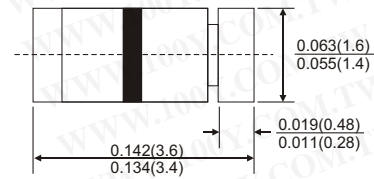
LLDB3 /LLDC 34/LLD B4/LL DB6

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,DC34,DB4) or four volts(DB6). These diacs are intended for use in thyristors phase control , circuits for lamp dimming, universal motor speed control ,and heat control.
 JF's DB3/DC34/DB4/DB6 are bi-directional trigged diode designed to operate in conjunction with Triacs and SCR's

Mini-MELF



MECHANICAL DATA

Dimensions in inches and (millimeters)

- Case : Mini-MELF glass case(SOD-80)
- Weight : Approx. 0.05 gram

ABSOLUTE RATINGS(LIMITING VALUES)

Symbols	Parameters	Value	Value				Units
			LLDB3	LLDC34	LLDB4	LLDB6	
PC	Power Dissipation on Printed Circuit(L=10mm)	T _A =50 C	150				mW
ITRM	Repetitive Peak on-state Current	t _p =10ms F=100Hz	2.0	2.0	2.0	16	A
TSTG/TJ	Storage and Operating Junction Temperature		-40 to +125/-40 to 110				°C

ELECTRICAL CHARACTERISTICS

Symbols	Parameters	Test Conditions	Value				Units	
			LLDB3	LLDC34	LLDB4	LLDB6		
V _{BO}	Breakover Voltage (Note 2)	C=22nF (Note 2) See diagram 1	Min	28	30	35	56	V
			Typ	32	34	40	60	
			Max	36	38	45	70	
$\frac{ +V_{BO} - -V_{BO} }{ +V_{BO} + -V_{BO} }$	Breakover Voltage Symmetry	C=22nF (Note 2) See diagram 1	Max	±3		±4	V	
$ \pm \Delta V $	Dynamic Breakover Voltage (Note1)	$\Delta I = (I_{BO} \text{ to } I_F = 10\text{mA})$ See Diagram 1	Min	5		10	V	
V _O	Output Voltage (Note 1)	See Diagram 2	Min	5				V
I _{BO}	Breakover Current (Note1)	C=22nF (Note 2)	Max	100				mA
t _r	Rise Time (Note1)	See Diagram 3	Typ	1.5				mS
I _B	Leakage Current (Note1)	V _B =0.5 V _{BO} max see diagram 1	Max	10				mA

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

RATINGS AND CHARACTERISTIC CURVES LLDB3/LLDC34 /LLDB4/LL DB6

DIAGRAM 1: Current-voltage characteristics

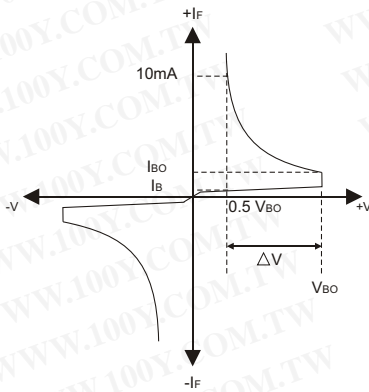


FIG.1-Power dissipation versus ambient temperature (maximum values)

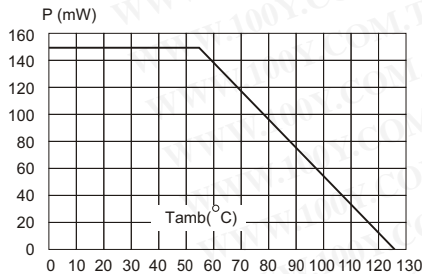


FIG.3-Peak pulse current versus pulse duration (maximum values)

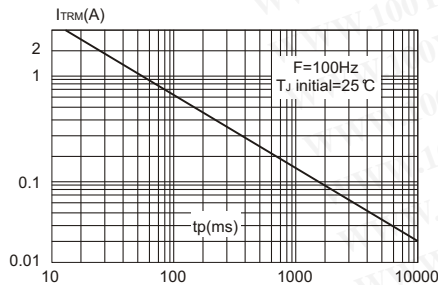


DIAGRAM 2: Test circuit for output voltage

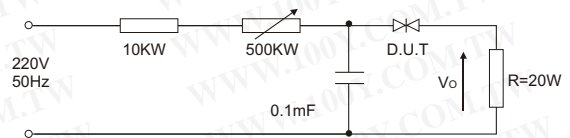


DIAGRAM 3: Test circuit see diagram2 adjust R for $I_p=0.5A$

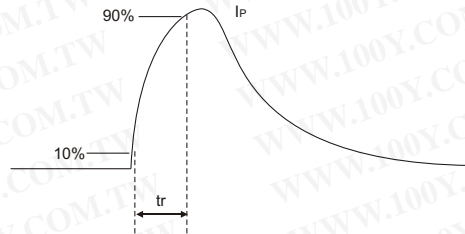


FIG.2-Relative variation of VBO versus junction temperature (typical values)

