

LLDB3PF, LLDB4PF

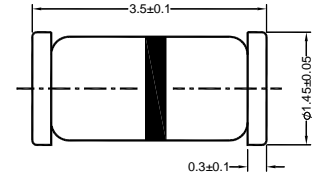
Silicon Bidirectional Trigger Diodes

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

Features

- Lead Free

LL-34



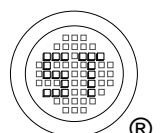
Glass Case Mini MELF
Dimensions in mm

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Power Dissipation ($T_a = 65^\circ\text{C}$)	P_{tot}	150	mW
Repetitive Peak On-state Current ($t_p = 20 \mu\text{s}$, $f = 100 \text{ Hz}$)	I_{TRM}	2	A
Operating Junction and Storage Temperature Range	T_j, T_{stg}	- 40 to + 125	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Breakover Voltage at $C = 22 \text{ nF}$, see diagram 1	LLDB3PF	28	36	V
	LLDB4PF	35	45	
Breakover Voltage Symmetry at $C = 22 \text{ nF}$, see diagram 1	$[+V_{\text{BO}} - -V_{\text{BO}}]$	-	3	V
Dynamic Breakover Voltage at $\Delta I = [I_{\text{BO}} \text{ to } I_{\text{F}} = 10 \text{ mA}]$	$ \Delta V_{\pm} $	5	-	V
Output Voltage See diagram 2	V_o	5	-	V
Breakover Current at $C = 22 \text{ nF}$	I_{BO}	-	50	μA
Leakage Current at $V_B = 0.5 V_{\text{BO max}}$	I_B	-	10	μA
Rise Time See diagram 3	t_r	-	2	μs



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Electrical Characteristics Curves

Diagram 1: Current-voltage characteristics

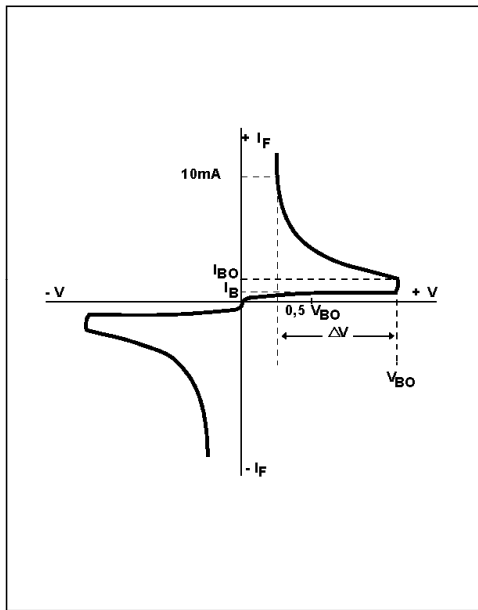


Diagram 2: Test circuit for output voltage

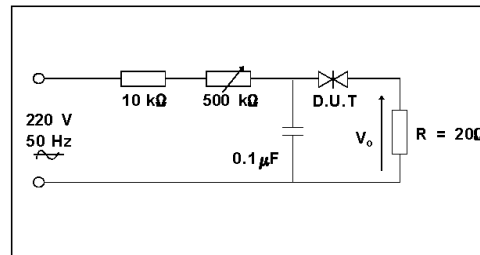


Diagram 3: Test circuit see diagram 2. Adjust R for $I_p=0.5A$

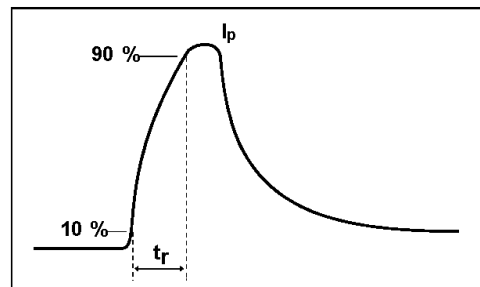


Fig. 1: Power dissipation versus ambient temperature (maximum values)

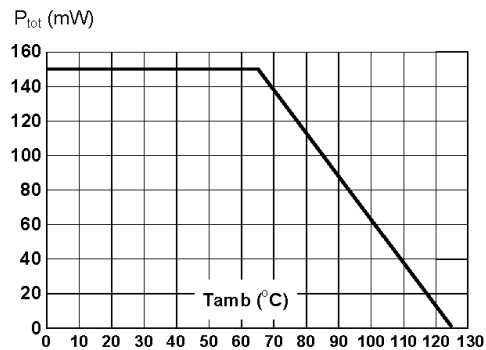


Fig. 2: Relative variation of V_{BO} versus junction temperature (typical values)

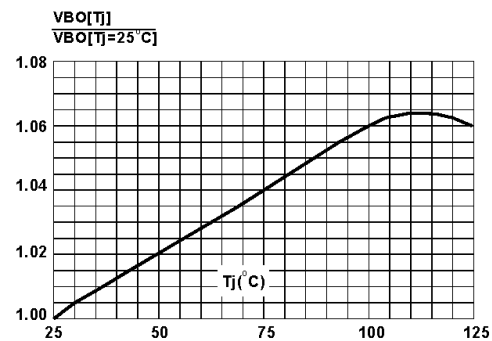
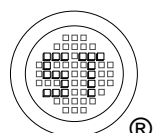
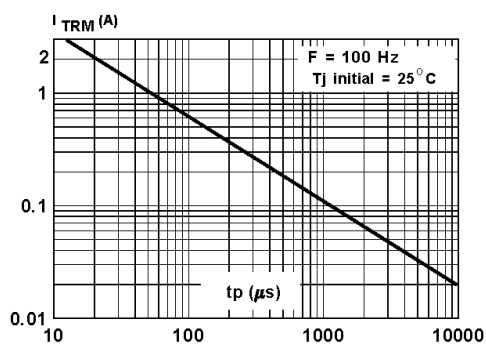


Fig. 3: Peak pulse current versus pulse duration (maximum values)



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