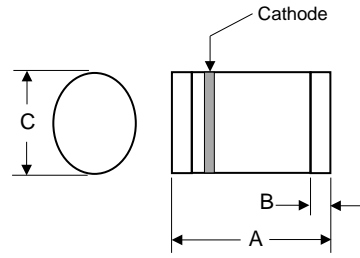


### Applications

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



RoHS  
COMPLIANT



LL-34(MiniMELF)				
DIM.	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.134	0.142	3.40	3.60
B	0.008	0.016	0.20	0.40
C	0.055	0.059	1.40	1.50

### Absolute Maximum Ratings (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Power Dissipation (T <sub>a</sub> = 65 °C)	P <sub>tot</sub>	150	mW
Repetitive Peak On-state Current (t <sub>p</sub> = 20 μs, f = 100 Hz)	I <sub>TRM</sub>	2	A
Operating Junction and Storage Temperature Range	T <sub>J</sub> / T <sub>stg</sub>	- 40 to + 125	°C

### Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Min.	Max.	Unit
Breakover Voltage at C = 22 nF, see diagram 1	V <sub>BO</sub>	28	36	V
		35	45	
Breakover Voltage Symmetry at C = 22 nF, see diagram 1	[ +V <sub>BO</sub>  - -V <sub>BO</sub>  ]	-	3	V
Dynamic Breakover Voltage at ΔI = [I <sub>BO</sub> to I <sub>F</sub> = 10 mA]	ΔV ±	5	-	V
Output Voltage See diagram 2	V <sub>O</sub>	5	-	V
Breakover Current at C = 22 nF	I <sub>BO</sub>	-	50	μA
Leakage Current at V <sub>B</sub> = 0.5 V <sub>BO</sub> max	I <sub>B</sub>	-	10	μA
Rise Time See diagram 3	t <sub>r</sub>	-	2	μs

### Ratings and Characteristic Curves

Diagram 1: Current-voltage characteristics

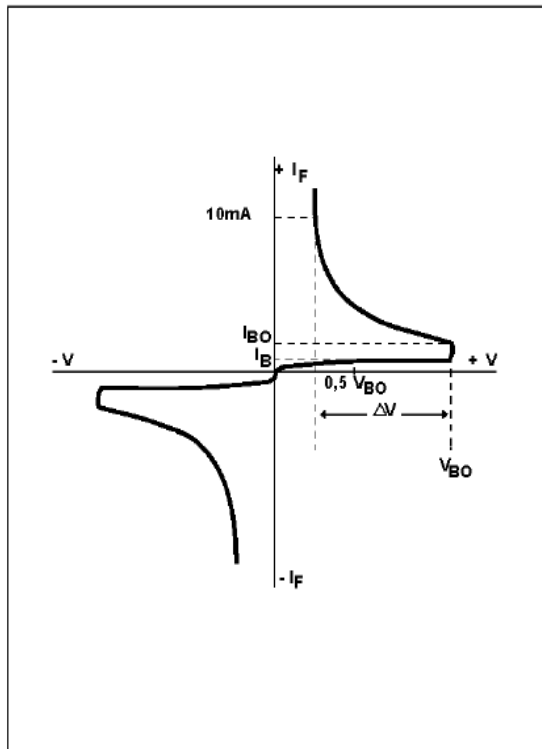


Diagram 2: Test circuit for output voltage

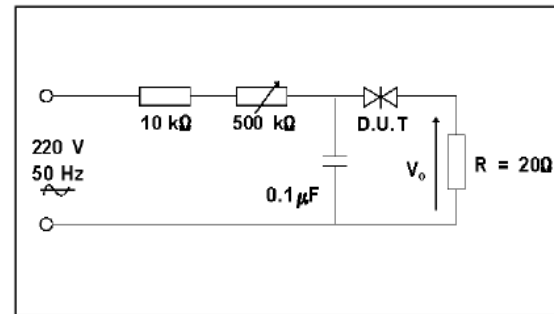


Diagram 3: Test circuit see diagram 2. Adjust R for  $I_p=0.5A$

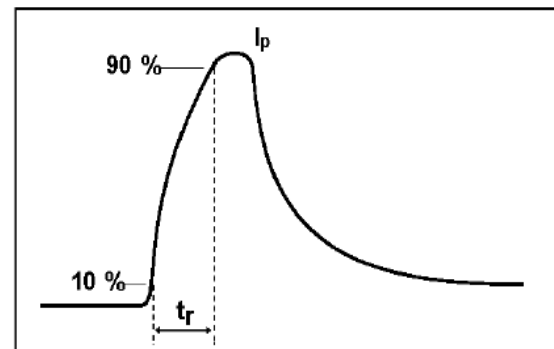


Fig. 1: Power dissipation versus ambient temperature (maximum values)

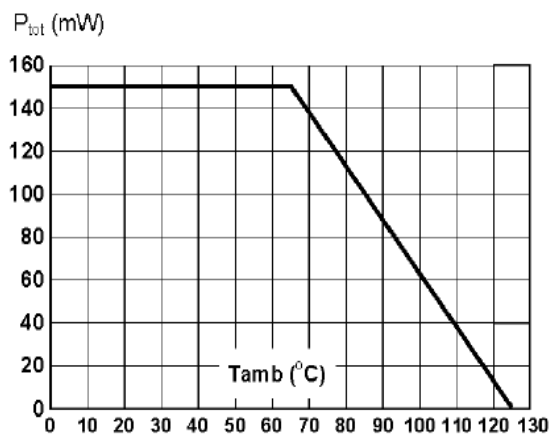
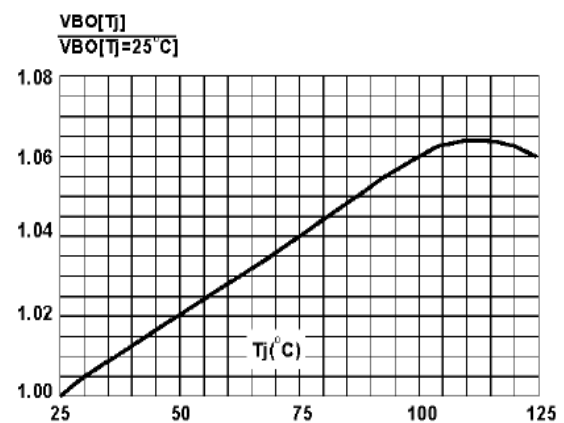
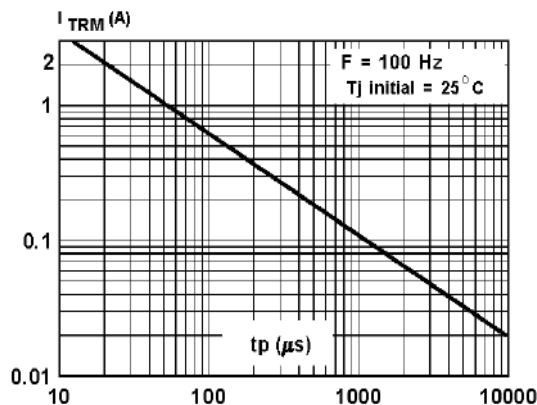


Fig. 2: Relative variation of  $V_{BO}$  versus junction temperature (typical values)



### Ratings and Characteristic Curves

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



### Ordering Information

Part No.	Package	Packing Code	Packing
LLDB3 / LLDB4	LL-34(MiniMELF)	R25	2500pcs/Reel

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