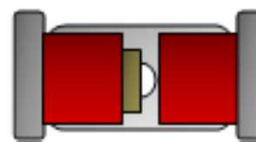


**Small Signal Product**

**150mW Bi-directional Trigger Diode**

**FEATURES**

- Surface mounted device
- Hermetically sealed glass
- Matte Tin(Sn) terminal finish
- All external surfaces are corrosion resistant and terminals are readily solderable



**MECHANICAL DATA**

- Case: Mini-MELF package
- High temperature soldering guaranteed: 260°C/10s
- Weight: 29 ± 2.5 mg
- Terminal: Pure tin plated, lead free, solderable per MIL-STD-202, method 208 guaranteed
- Pb free and RoHS compliant

**Mini-MELF (LL34)**

Hermetically Sealed Glass



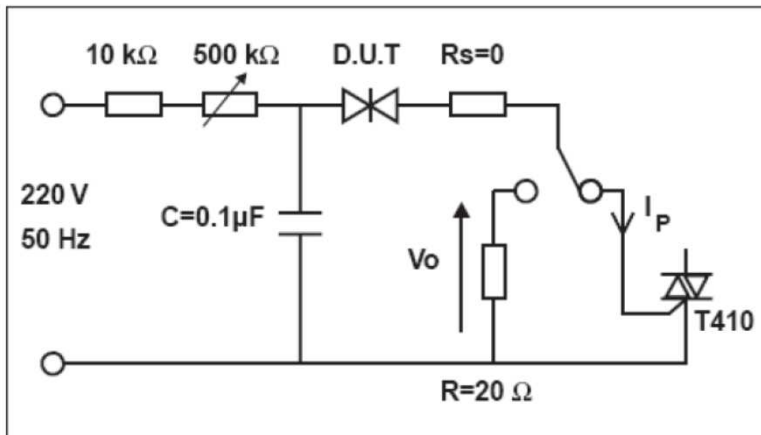
**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS** (T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Repetitive Peak Forward Current Pulse Width = 20µs	I <sub>FRM</sub>	2	A
Power Dissipation	P <sub>D</sub>	150	mW
Thermal Resistance (Junction to Ambient) (Note)	R <sub>θJA</sub>	400	°C/W
Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	- 40 to + 125	°C

Notes: Valid provided that electrodes are kept at ambient temperature

PARAMETER	SYMBOL	MIN	TYP	MAX	TEST CONDITION	UNIT
Break-Over Voltage	V <sub>BO</sub>	28	32	36	C=22nF	V
		30	32	34		
Break-Over Voltage Symmetry	+ / -V <sub>BO</sub>			±3	C=22nF	V
				±2		
Dynamic Breakdown Voltage	ΔV	5			I <sub>BO</sub> to I <sub>F</sub> =10mA	V
		9				
Output Voltage	V <sub>O</sub>	5			(Note)	V
Leakage Current	I <sub>B</sub>			10	V <sub>B</sub> = 0.5V <sub>BO</sub> (Max)	µA
Break-Over Current	I <sub>BO</sub>			100	C=22nF	µA
		-		15		

Notes: Test Circuit



Small Signal Product

RATINGS AND CHARACTERISTICS CURVES

( $T_A=25^\circ\text{C}$  unless otherwise noted)

Fig. 1 Admissible Power Dissipation Curve

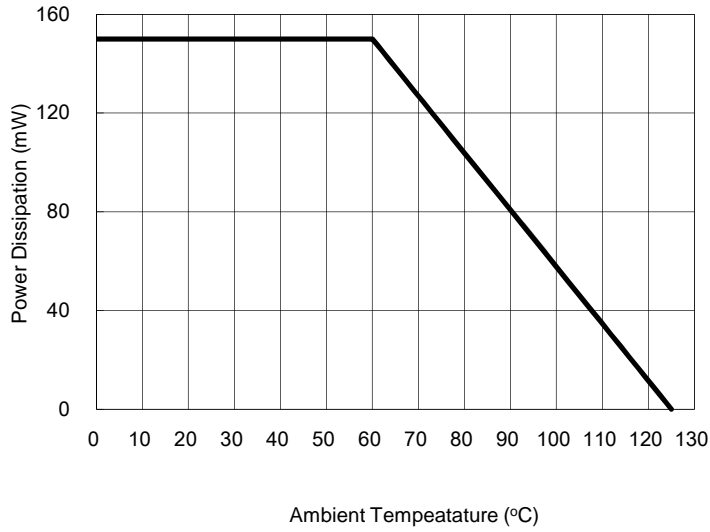


Fig. 2 Relative Variation of VBO VS. Junction Temperature (Typical Values)

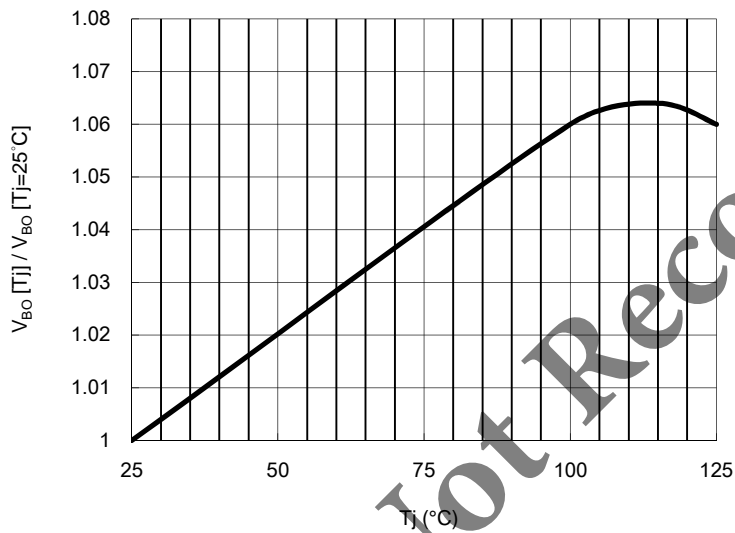
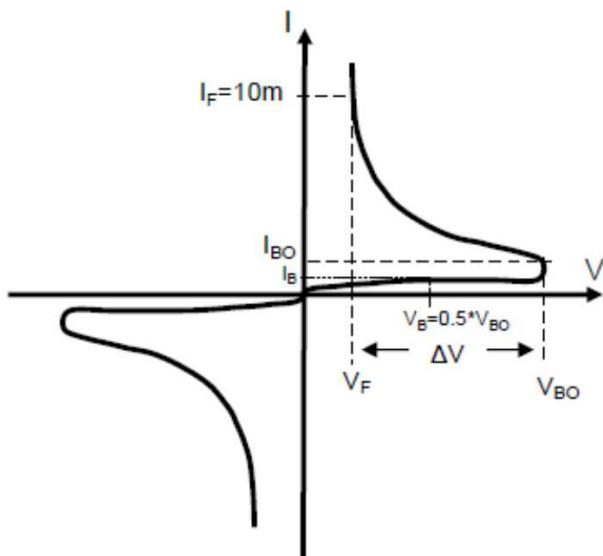
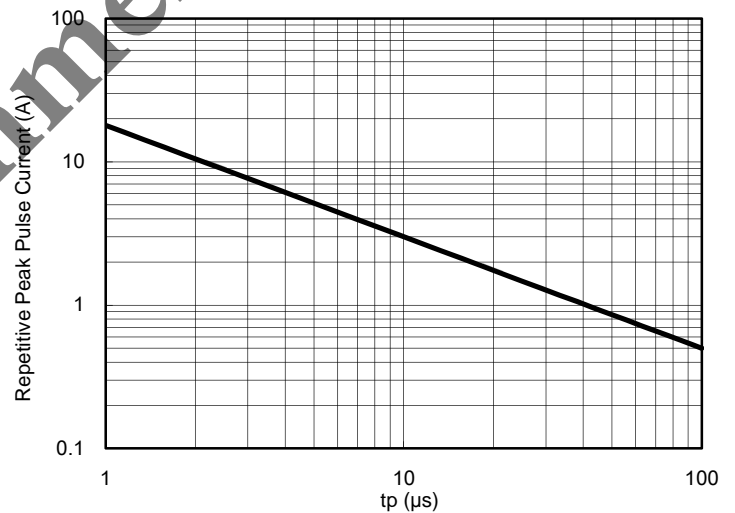


Fig. 3 Repetitive Peak Pulse Current VS. Pulse Duration (Maximum Values)



- $V_{BO}$  : Break-Over Voltage
- $I_{BO}$  : Break-Over Current
- $\Delta V$  : Dynamic Breakover Voltage
- $I_B$  : Leakage Current at  $V_B=0.5*V_{BO}$
- $V_F$  : Voltage at Current  $I_F=10\text{mA}$

**Small Signal Product**

<b>ORDERING INFORMATION</b>						
<b>PART NO.</b>	<b>MANUFACTURE CODE (Note)</b>	<b>PACKING CODE</b>	<b>GREEN COMPOUND CODE</b>	<b>PACKAGE</b>	<b>PACKING</b>	<b>MARKING</b>
LLDB3		L1	G	Mini-MELF (LL34)	2.5K / 7" Reel	
LLDB3TG		L1	G	Mini-MELF (LL34)	2.5K / 7" Reel	

Note: Indicator of manufacturing site for manufacture special control, if empty means no special control requirement

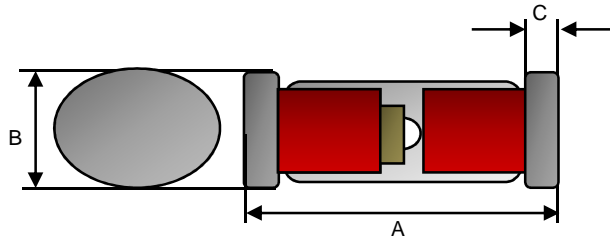
<b>EXAMPLE</b>					
<b>PREFERRED P/N</b>	<b>PART NO.</b>	<b>MANUFACTURE CODE</b>	<b>PACKING CODE</b>	<b>GREEN COMPOUND CODE</b>	<b>DESCRIPTION</b>
LLDB3 L1G	LLDB3		L1	G	Green compound
LLDB3-N0 L1G	LLDB3	N0	L1	G	Green compound

*Not Recommended*

**Small Signal Product**

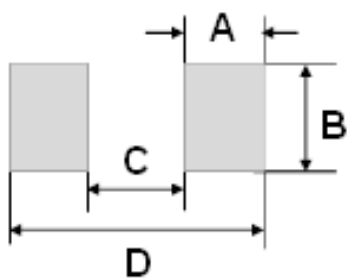
**PACKAGE OUTLINE DIMENSIONS**

Mini-MELF (LL34)



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	3.30	3.70	0.130	0.146
B	1.40	1.60	0.055	0.063
C	0.20	0.50	0.008	0.020

**SUGGESTED PAD LAYOUT**



DIM.	Unit (mm)	Unit (inch)
	Typ.	Typ.
A	1.25	0.049
B	2.00	0.079
C	2.50	0.098
D	5.00	0.197

*Not Recommended*

**Small Signal Product**

**Not Recommended**

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