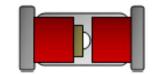


150mW Bi-directional Trigger Diode

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

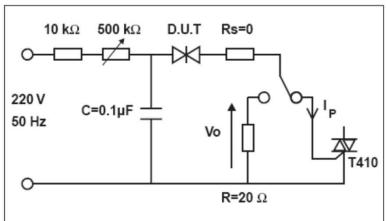


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)					
PARAMETER	SYMBOL	VALUE	UNIT		
Repetitive Peak Forward Current Pulse Width = 20µs	i I _{FRM}	2	А		
Power Dissipation	P_{D}	150	mW		
Thermal Resistance (Junction to Ambient) (Note)	$R_{\theta JA}$	400	°C/W		
Junction and Storage Temperature Range	T_J , T_{STG}	- 40 to + 125	°C		

Notes: Valid provided that electrodes are kept at ambient temperature

PARAMET	SYMBOL	MIN	TYP	MAX	TEST CONDITION	UNIT	
Brack Over Voltage	LLDB3	\/	28	32	36	C=22nF	V
Break-Over Voltage	LLDB3TG	V_{BO}	30	32	34	C=22NF	V
Prook Over Voltage Symmetry	LLDB3	. / \/			±3	C=22nF	V
Break-Over Voltage Symmetry	LLDB3TG	DB3TG + / - V _{BO}			±2	U=2211F	V
Dynamia Pragkdown Voltage	LLDB3	ΔV	5			l to l −10mΛ	V
Dynamic Breakdown Voltage	LLDB3TG	△ V	9			I_{BO} to $I_{F}=10$ mA	
Output Voltage		Vo	5			(Note)	V
Leakage Current		I _B			10	$V_B = 0.5V_{BO} (Max)$	μΑ
Break-Over Current	LLDB3	I _{BO}			100	C 22-F	
Dieak-Over Currefit	LLDB3TG		-		15	C=22nF	μA

Notes: Test Circuit

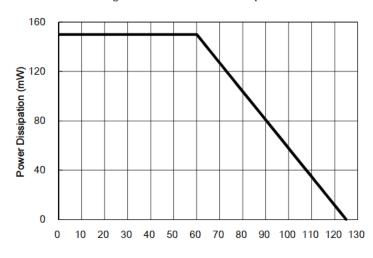




RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

Fig. 1 Admissible Power Dissipation Curve



Ambient Tempeatature (°C)

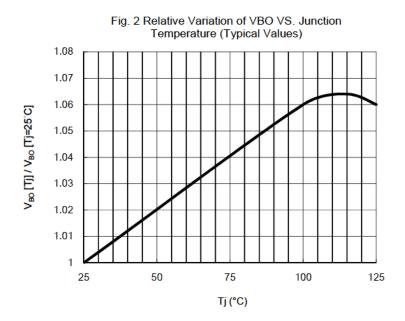
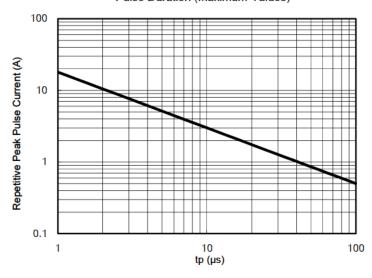
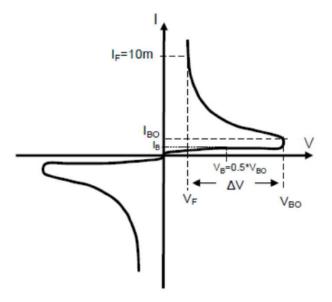


Fig. 3 Repetitive Peak Pulse Current VS. Pulse Duration (Maximum Values)





 V_{BO} : Break-Over Voltage I_{BO} : Break-Over Current

 $\begin{array}{lll} \Delta V: & \text{Dynamic Breakover Voltage} \\ I_B: & \text{Leakage Current at V}_B = 0.5^* V_{BO} \\ V_F: & \text{Voltage at Current I}_F = 10 \text{mA} \end{array}$



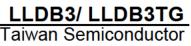


ORDERING INFORMATION						
PART NO.	MANUFACTURE CODE (Note)	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING	MARKING
LLDB3		L1	G	Mini-MELF (LL34)	2.5K / 7" Reel	
LLDB3TG		L1	G	Mini-MELF (LL34)	2.5K / 7" Reel	

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

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

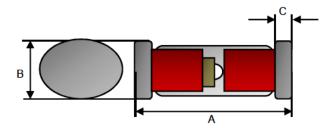
Document Number: DS_S1407002 Version: D14





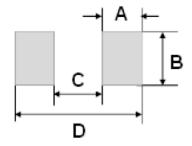
PACKAGE OUTLINE DIMENSIONS

Mini-MELF (LL34)

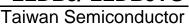


DIM.	Unit	(mm)	Unit (inch)		
DIWI.	Min	Max	Min	Max	
Α	3.30	3.70	0.130	0.146	
В	1.40	1.60	0.055	0.063	
С	0.20	0.50	0.008	0.020	

SUGGESTED PAD LAYOUT



DIM.	Unit (mm)	Unit (inch)
DIW.	Тур.	Тур.
Α	1.25	0.049
В	2.00	0.079
С	2.50	0.098
D	5.00	0.197





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