

# LLDB3 AND LLDB3SEL

### TRIGGER DIODES

#### **FEATURES**

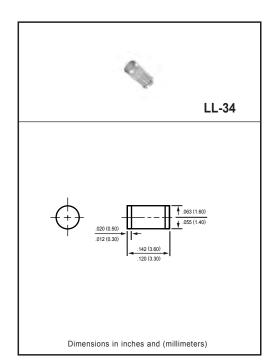
- \* VBO: 32V/34V/40V VERSIONS
- \* Low Breakover Current

#### **DESCRIPTION**

High reliability glass passivation insuring parameter stability and protection against junction contamination

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25  $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



#### MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATING	SYMBOL	VALUE	UNITS
Repetitive Peak On-State Current tp=20uA,F=100Hz	I <sub>TRM</sub>	2	Α
Power Dissipation (@ T <sub>A</sub> =50°C)	Р	150	mW
Derate Above +50°C		4.0	mW/°C
Storage Temperature Range	T <sub>STG</sub>	-40 to + 125	°C
Junction Temperature	TJ	125	°C

#### ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

RATING	SYMBOL	VALUE				UNITS
		LLDB3SEL		LLDB3		UNITS
Breakover Voltage(Forward and Reverse)	V <sub>BO</sub>	Min	Max	Min	Max	Volts
at IBO,C=22nF**		30	34	28	36	
Maximum Breakover Voltage Symmetry delta VBO= +VBO - -VBO  C=22nF	delta V <sub>BO</sub>	+/-2				
Minimum Dynamic Breakover Voltage delta I=IBO to IF=10mA (see Fig3)	delta V+/-	5				
Minimum Output Voltage* (see Fig 2)	Vo	5				
Peak Breakover Current at Breakorver Voltage* C=22nF**	I <sub>BO</sub>	25		100		uA
Rise Time* (see Fig3)	tr	1.5				
Leakage Current* V <sub>B</sub> =0.5V <sub>BO</sub> max (see Fig1)	IB	10				

NOTES: 1. \*Electrical characteristic applicable in both forward and reverse derections.

- 2.\*\*Connected in parallel with the devices.
- 3. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

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# RATING AND CHARACTERISTICS CURVES ( LLDB3 AND LLDB3SEL )

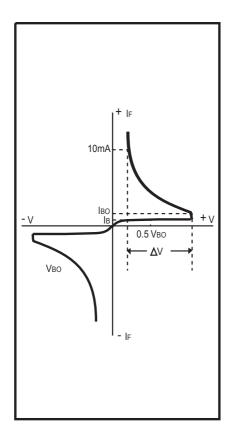


FIG.1 Current-voltage characteristics

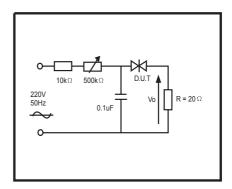


FIG.2 Test circuit for output voltage

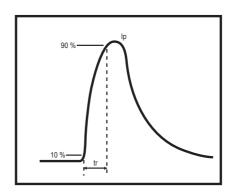
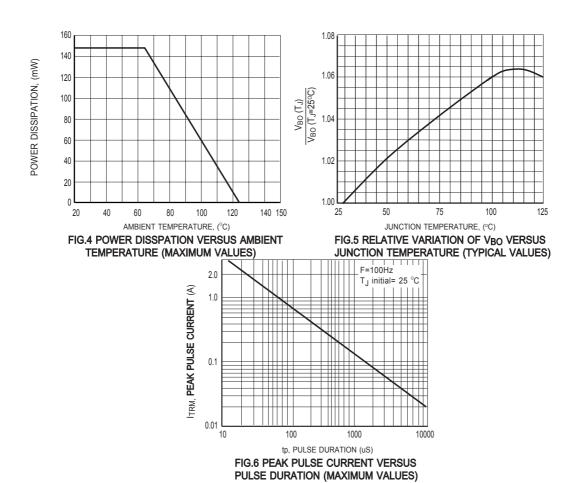


FIG.3 Test circuit see Fig.2 Adjust R for Ip=0.5A



## RATING AND CHARACTERISTICS CURVES ( LLDB3 AND LLDB3SEL )



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