

Reliability test report

LT P/N LT3004WH-A-GL

SHEN ZHEN SHI L.T PHOTOELECTRICITY TECHNOLOGY CO., LTD

1000H

lv

Test Item	lv Test time and brightness relation rate.					Fail No.	Conclusion	Remark
	0hr	168hrs	336hrs	500hrs	1000hrs			
(OLT)	100.000%	98.881%	97.545%	97.031%	95.698%	0	Pass	(Test Condition) : IF =20mA; 1000Hrs

Data Set ----25 20mA	
Part Number:	LT3004WH-A-GL
Number of Units:	20pcs
Actual Case Temperature(TS):	TS=26.3
Actual Ambient Temperature(TA):	TA=25.2
Life Test Drive Current	IF=20mA

	L50	L70	L80
LT3004WH-A-GL	16112	8291	5187

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LED 50% LED LED1000
MTBF .

$$R(\%)=[e^{-\lambda t}]$$

LED
1000
2.7183

50%/70%/80%

$$R(\%)=[e^{-\lambda t}]$$

$$=[2.7183^{-(0.0430/1000\text{hrs}) t}]$$

=50%/70%/80%

, 50% LED

$$t = - \frac{\ln(50\%)}{(0.0430/1000\text{hrs})}$$

=16112hrs

, 70% LED

$$t = - \frac{\ln(70\%)}{(0.0430/1000\text{hrs})}$$

=8291hrs

, 80% LED

$$t = - \frac{\ln(80\%)}{(0.0430/1000\text{hrs})}$$

=5187hrs