

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 .

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

LED
1000
2.7183

50%/70%/80%

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

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

$$=50\%/70\%/80\%$$

,

50% LED
 $t = -$
 $= -[(\ln 50\%) / (0.0430 / 1000\text{hrs})]$
 $= 16112\text{hrs}$

,

70% LED
 $t = -[(\ln 7$
 $= -[(\ln 70\%) / (0.0430 / 1000\text{hrs})]$
 $= 8291\text{hrs}$

,

80% LED
 $t = -[(\ln 8$
 $= -[(\ln 80\%) / (0.0430 / 1000\text{hrs})]$
 $= 5187\text{hrs}$