



**Reliability test report**

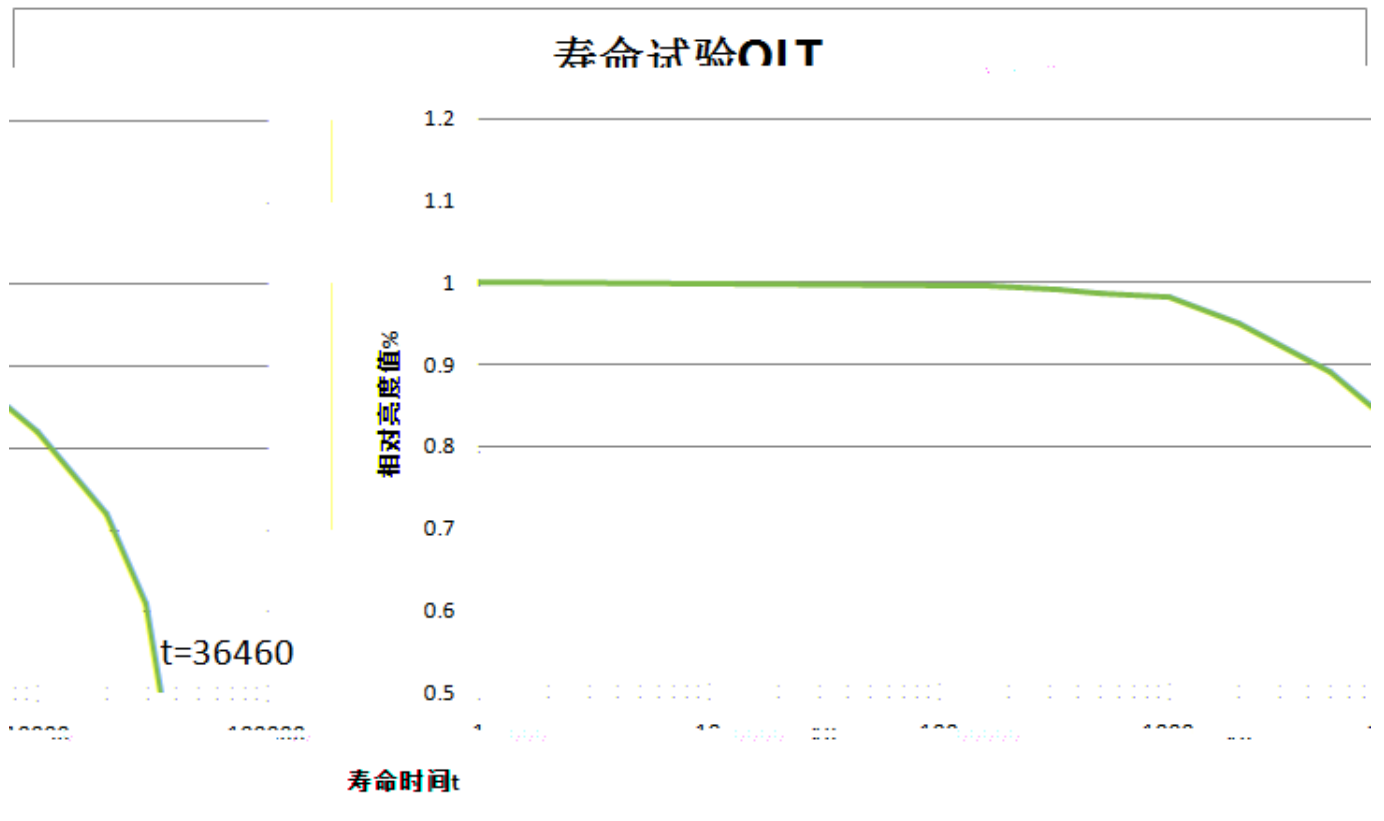
**LT P/N LT3014WH-B-Q**

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

## Iv

Test Item	Iv Test time and brightness relation rate.					Fail No.	Conclusion	Remark
	0hr	168hrs	336hrs	500hrs	1000hrs			
(OLT)	1	0.996	0.9900	0.9858	0.9809	0	Pass	(Test Condition) : IF =20mA; 1000Hrs

Data Set ----25°C , 30mA	
Part Number:	LT3014WH-B-Q
Number of Units:	20pcs
Actual Case Temperature(TS):	TS=32.3°C
Actual Ambient Temperature(TA):	TA=25.4°C
Life Test Drive Current :	IF=30mA



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LED      50%      LED      LED1000  
 MTBF

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

R  
 t      LED  
 λ ,      1000  
 e      2.7183

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

$$= [2.7183^{-(0.0190/1000\text{hrs}) t}]$$

$$= 50\%$$

,      50% LED

$$t = -[ (\ln 50\%) / \lambda ]$$

$$= -[ (\ln 50\%) / (0.0190/1000\text{hrs}) ]$$

$$= 36460\text{hrs}$$