



**Reliability test report**

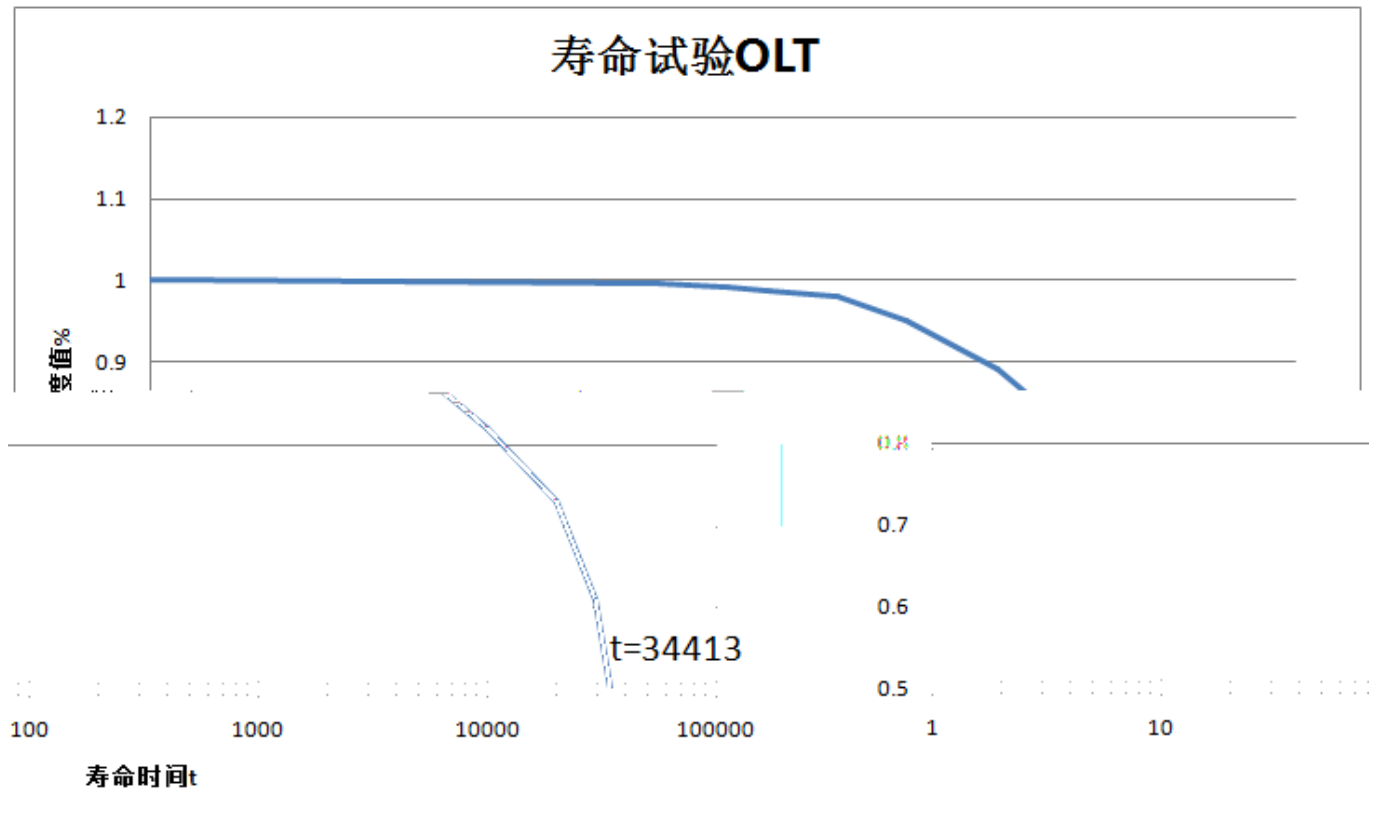
**LT P/N LT3014WH-E-Q**

# 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	1.0062	0.9931	0.9882	0.9830	0	Pass	(Test Condition) : IF =20mA; 1000Hrs

Data Set ----25°C , 80mA	
Part Number:	LT3014WH-E-Q
Number of Units:	20pcs
Actual Case Temperature(TS):	TS=40.9°C
Actual Ambient Temperature(TA):	TA=25.4°C
Life Test Drive Current :	IF=80mA



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

LED	50%	LED	LED1000
		MTBF	

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

R  
t  
e  
,

LED	1000
2.7183	

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

$$= [2.7183^{-(0.0201/1000\text{hrs}) t}]$$
$$= 50\%$$

, 50% LED

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

$$= -[\ln 50\% / (0.0201/1000\text{hrs})]$$
$$= 34413\text{hrs}$$