



Reliability test report

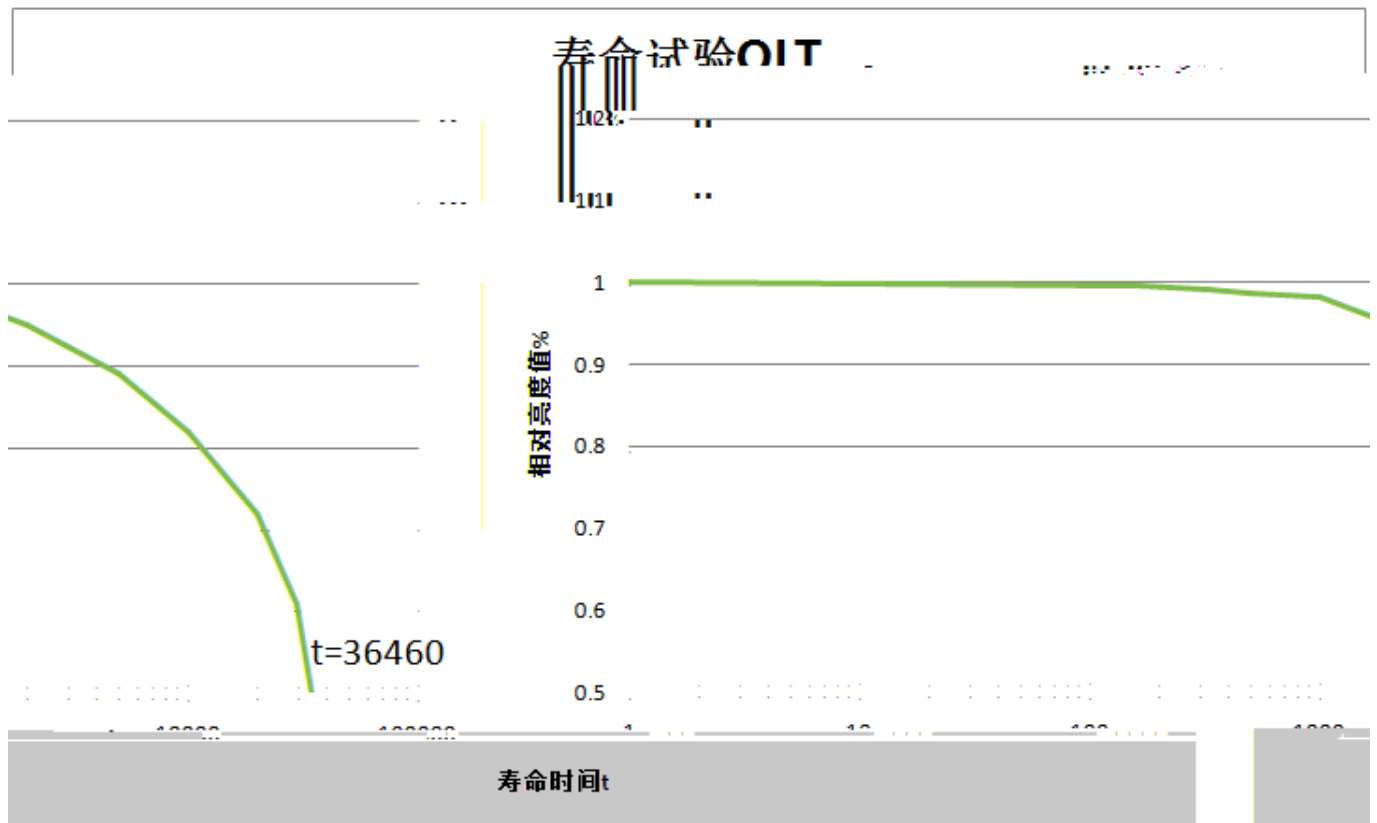
LT P/N LT3014WH-B-Q

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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

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

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

$$= 36460\text{hrs}$$