

# Reliability test report

PN

hö

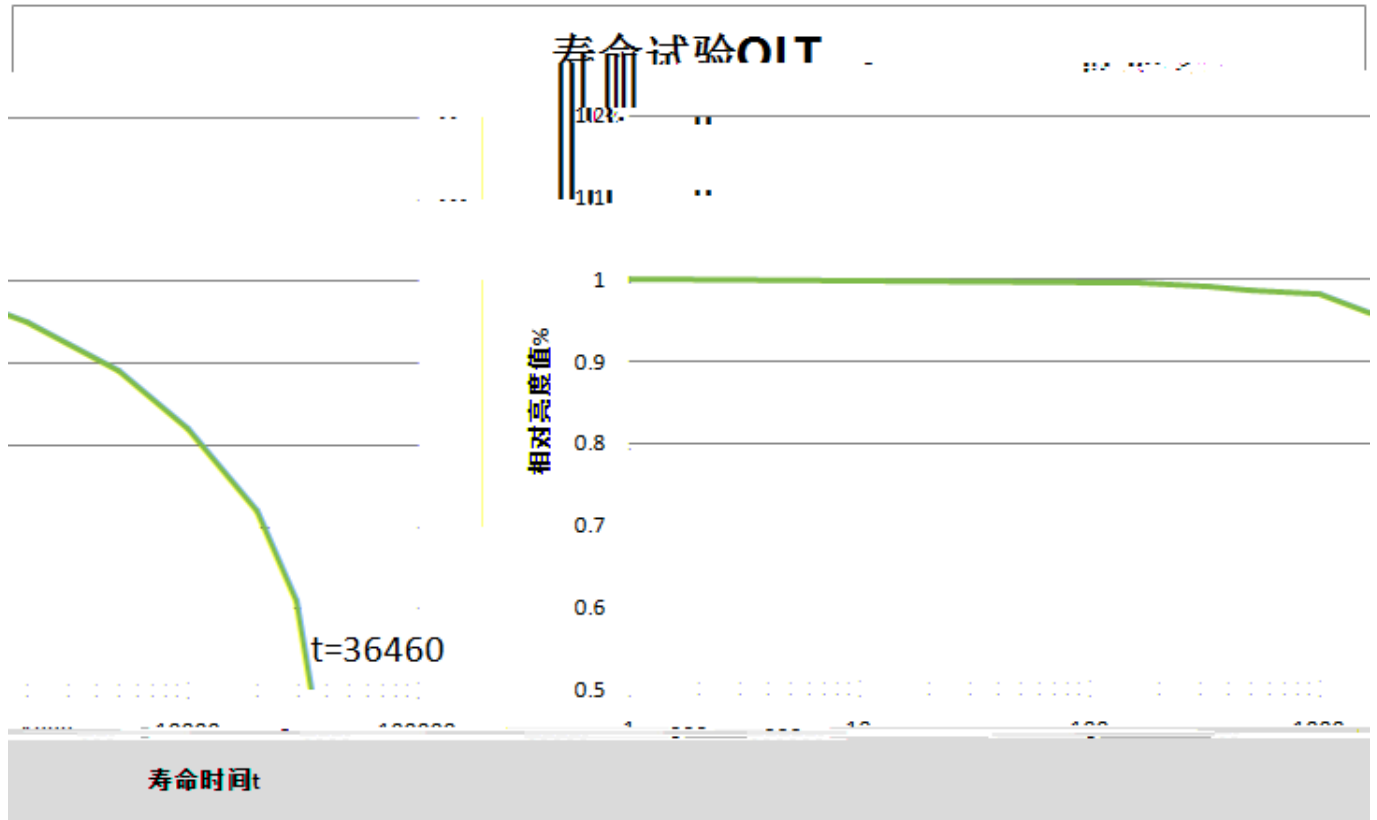
**LT P/N LT3014WH-B-Q**

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

## Iv

| Test Item | Iv<br>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) :<br>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      |



# 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

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

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

$$= 50\%$$

, 50% LED

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

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

$$= 36460\text{hrs}$$