

Reliability test report

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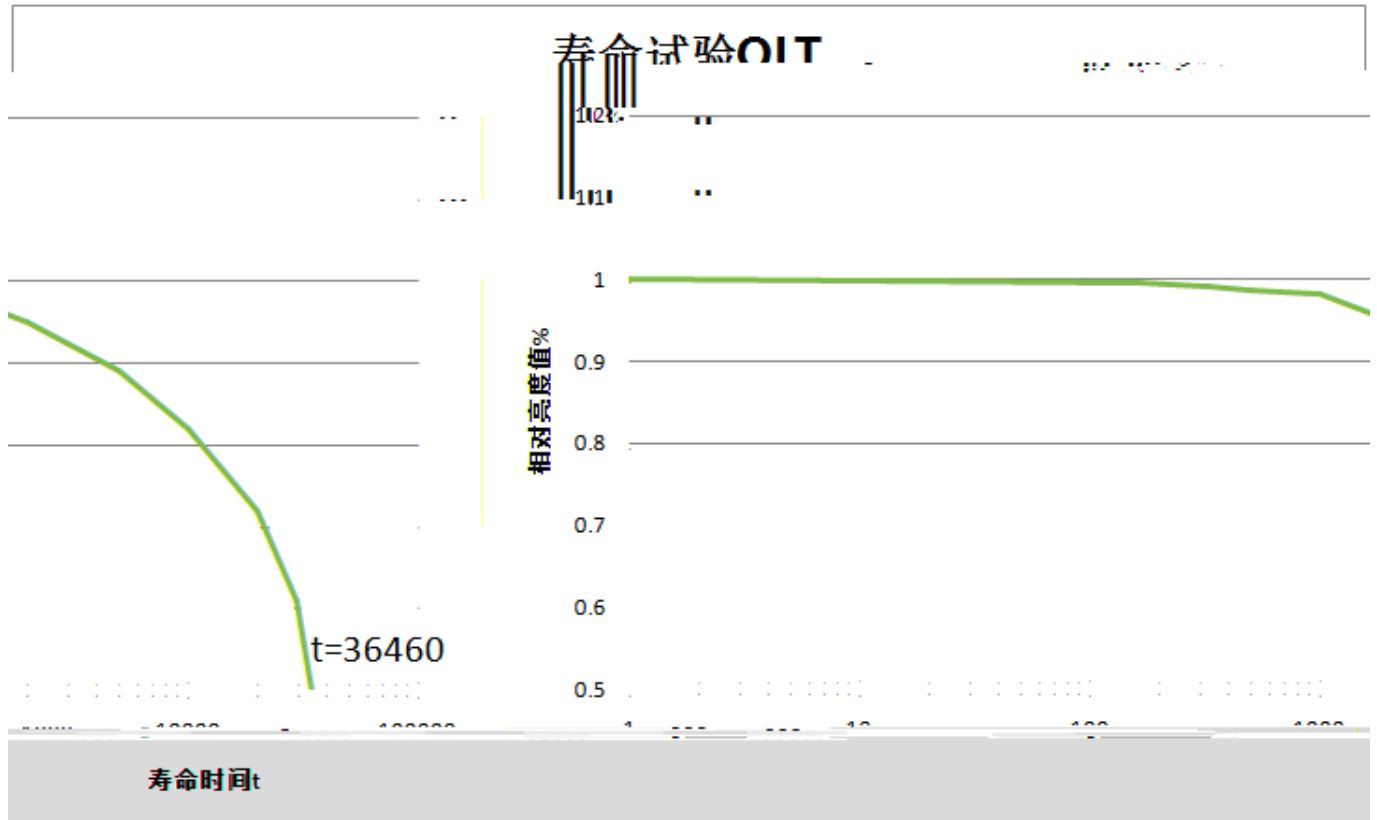
LT P/N LT3014WH-B-Q

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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

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

R
t LED
, 1000
e 2.7183

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

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

$$= 50\%$$

, 50% LED

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

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

$$= 36460\text{hrs}$$