

LED Reliability Test

Test Item : Continuous operating test.

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Part No: L-934LID

Dice type: ED-011HOH

Life test forward current:30mA

Dice lot: 8800095B131187

Test reason: Reliability Test

Reference : JIS C7035

Intensity test forward current(mA): 2mA

Sampling method:

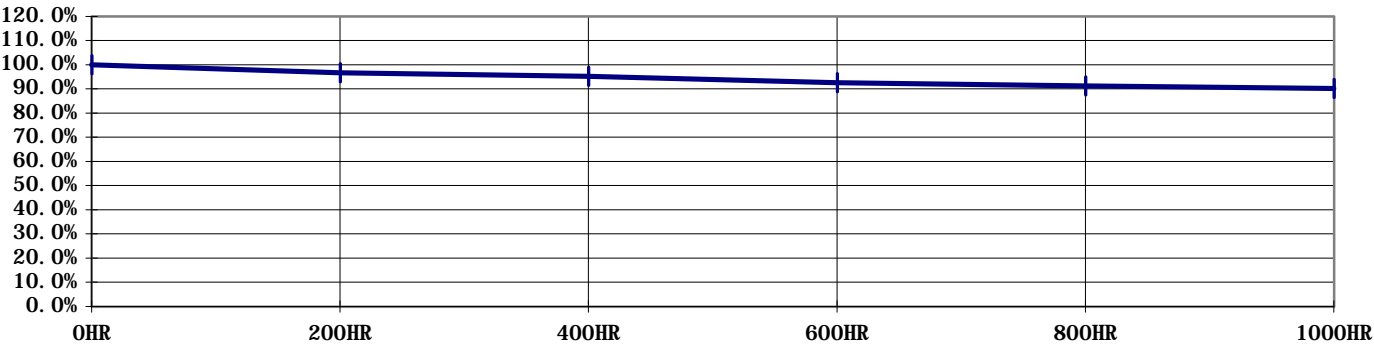
Test condition: Ta=23±5Degree C. RH=55±20%RH

MIL-STD-19500D LTPD=10%

Inspection condition: Ta=23±5Degree C. RH=55±20%RH

| NO | 0000 mcd | 0HR | 200HR | 400HR | 600HR | 800HR | 1000HR | BEFORE TEST | | | AFTER TEST | | |
|-------------|-------------|----------|----------|----------|---------|----------|----------|-------------|----------|----------|------------|----------|----------|
| | | | | | | | | VF | IR | λD | VF | IR | λD |
| 1 | | 3.86 | 3.73 | 3.68 | 3.58 | 3.52 | 3.49 | 1.99 | 0.1 | 625.7 | 2.01 | 0.1 | 625.6 |
| 2 | | 3.90 | 3.79 | 3.72 | 3.61 | 3.56 | 3.52 | 2.00 | 0.1 | 625.7 | 2.02 | 0.1 | 625.8 |
| 3 | | 3.83 | 3.70 | 3.64 | 3.54 | 3.49 | 3.45 | 2.01 | 0.1 | 626.8 | 2.01 | 0.1 | 626.7 |
| 4 | | 3.68 | 3.55 | 3.52 | 3.43 | 3.38 | 3.34 | 2.01 | 0.1 | 625.6 | 2.02 | 0.1 | 625.7 |
| 5 | | 3.34 | 3.24 | 3.17 | 3.08 | 3.03 | 3.00 | 2.03 | 0.1 | 625.5 | 1.99 | 0.1 | 625.4 |
| 6 | | 3.86 | 3.71 | 3.65 | 3.55 | 3.49 | 3.45 | 2.02 | 0.1 | 625.9 | 1.98 | 0.1 | 626.0 |
| 7 | | 3.34 | 3.20 | 3.17 | 3.13 | 3.08 | 3.05 | 2.00 | 0.1 | 625.9 | 1.98 | 0.1 | 625.8 |
| 8 | | 3.86 | 3.73 | 3.67 | 3.54 | 3.52 | 3.48 | 2.01 | 0.1 | 626.0 | 1.97 | 0.1 | 626.1 |
| 9 | | 3.86 | 3.73 | 3.67 | 3.53 | 3.52 | 3.48 | 2.02 | 0.1 | 626.2 | 1.98 | 0.1 | 626.1 |
| 10 | | 3.72 | 3.59 | 3.55 | 3.46 | 3.40 | 3.37 | 1.98 | 0.1 | 625.8 | 1.94 | 0.1 | 625.9 |
| 11 | | 3.44 | 3.32 | 3.26 | 3.17 | 3.12 | 3.09 | 2.00 | 0.1 | 626.2 | 2.02 | 0.1 | 626.1 |
| 12 | | 3.92 | 3.80 | 3.76 | 3.66 | 3.61 | 3.57 | 1.98 | 0.1 | 626.0 | 1.94 | 0.1 | 626.1 |
| 13 | | 3.85 | 3.75 | 3.65 | 3.55 | 3.50 | 3.46 | 1.99 | 0.1 | 625.7 | 1.95 | 0.1 | 625.8 |
| 14 | | 3.44 | 3.30 | 3.26 | 3.18 | 3.14 | 3.10 | 2.02 | 0.1 | 625.6 | 2.02 | 0.1 | 625.5 |
| 15 | | 3.85 | 3.73 | 3.68 | 3.58 | 3.52 | 3.49 | 2.00 | 0.1 | 625.9 | 2.02 | 0.1 | 626.0 |
| 16 | | 4.06 | 3.93 | 3.87 | 3.77 | 3.71 | 3.67 | 2.01 | 0.1 | 625.6 | 2.03 | 0.1 | 625.7 |
| 17 | | 3.84 | 3.72 | 3.65 | 3.55 | 3.49 | 3.45 | 2.00 | 0.1 | 625.9 | 2.00 | 0.1 | 625.8 |
| 18 | | 3.75 | 3.61 | 3.55 | 3.45 | 3.40 | 3.36 | 1.96 | 0.1 | 625.5 | 1.98 | 0.1 | 625.6 |
| 19 | | 3.71 | 3.58 | 3.52 | 3.43 | 3.39 | 3.35 | 2.01 | 0.1 | 625.8 | 2.01 | 0.1 | 625.7 |
| 20 | | 3.45 | 3.34 | 3.30 | 3.21 | 3.16 | 3.12 | 1.99 | 0.1 | 625.4 | 2.01 | 0.1 | 625.5 |
| 21 | | 4.05 | 3.93 | 3.87 | 3.76 | 3.70 | 3.66 | 2.02 | 0.1 | 625.8 | 2.02 | 0.1 | 625.7 |
| 22 | | 3.83 | 3.71 | 3.65 | 3.55 | 3.47 | 3.45 | 2.02 | 0.1 | 625.3 | 2.02 | 0.1 | 625.4 |
| Max | | 4.06 | 3.93 | 3.87 | 3.77 | 3.71 | 3.67 | 2.03 | 0.1 | 626.8 | 2.03 | 0.1 | 626.7 |
| Min | | 3.34 | 3.20 | 3.17 | 3.08 | 3.03 | 3.00 | 1.96 | 0.1 | 625.3 | 1.94 | 0.1 | 625.4 |
| Average | | 3.75 | 3.62 | 3.57 | 3.47 | 3.42 | 3.38 | 2.00 | 0.1 | 625.8 | 2.00 | 0.1 | 625.8 |
| Percentage% | | 100.0% | 96.7% | 95.2% | 92.6% | 91.2% | 90.3% | | | | | | |
| TEST DATE | | 10/13/04 | 10/21/04 | 10/29/04 | 11/6/04 | 11/14/04 | 11/22/04 | 10/13/04 | 10/13/04 | 10/13/04 | 11/22/04 | 11/22/04 | 11/22/04 |

INTENSITY DEGRADATION CURVE



Tested by: Xiangli Qin

Checked by: Xianhuan Zhong