## **CLL040 Series Lifetime Prediction 1**

IF=120mA/die

## 200,000 175,000 150,000 Lifetime 125,000 100,000 (Hours) 75,000 L70 50,000 25,000 0 100 110 120 130 140 150 160 Tj(deg C)

(1) Lifetime for CLL040 Series

Note 1) No guaranteed values.

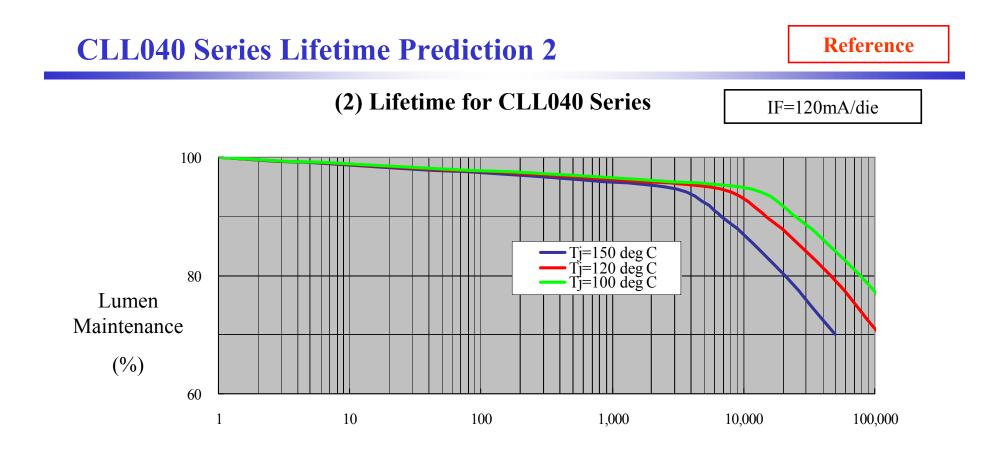
Note 2) Failure criterion: lumen maintenance 70% or less.

Note 3) CITIZEN ELECTRONICS CO., LTD. reserves the right to make changes to technical information or data without notification.

Note 4) L70 is a life time when the lumen maintenance becomes 70%.

Note 5) The above data has no luminescent color-related difference.

Note 6) The lifetime prediction results above do not change if the current is within a range IF=120mA/die that is the absolute maximum rating Note 7) Only for CLL040, Tjmax is 150 deg C and IFmax is 120mA/die.



## Lifetime(Hours)

Note 1) No guaranteed values.

Note 2) CITIZEN ELECTRONICS CO., LTD. reserves the right to make changes to technical information or data without notification.

Note 3) The above data has no luminescent color-related difference.

Note 4) The lifetime prediction results above do not change if the current is within a range IF=120mA/die that is the absolute maximum rating. Note 5) Only for CLL030, Tjmax is 150 deg C and IFmax is 120mA/die.