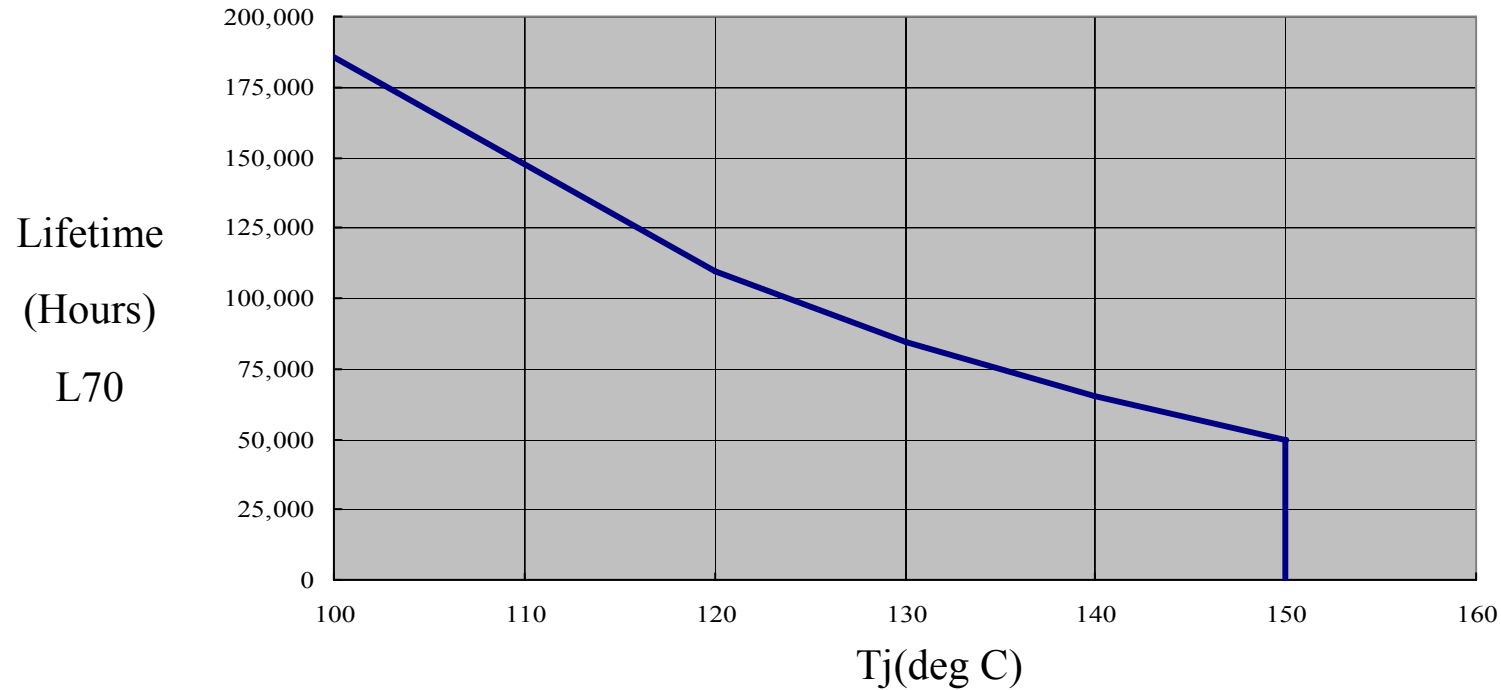


CLL030 Series Lifetime Prediction 1

Reference

(1) Lifetime for CLL030 Series

IF=120mA/die



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

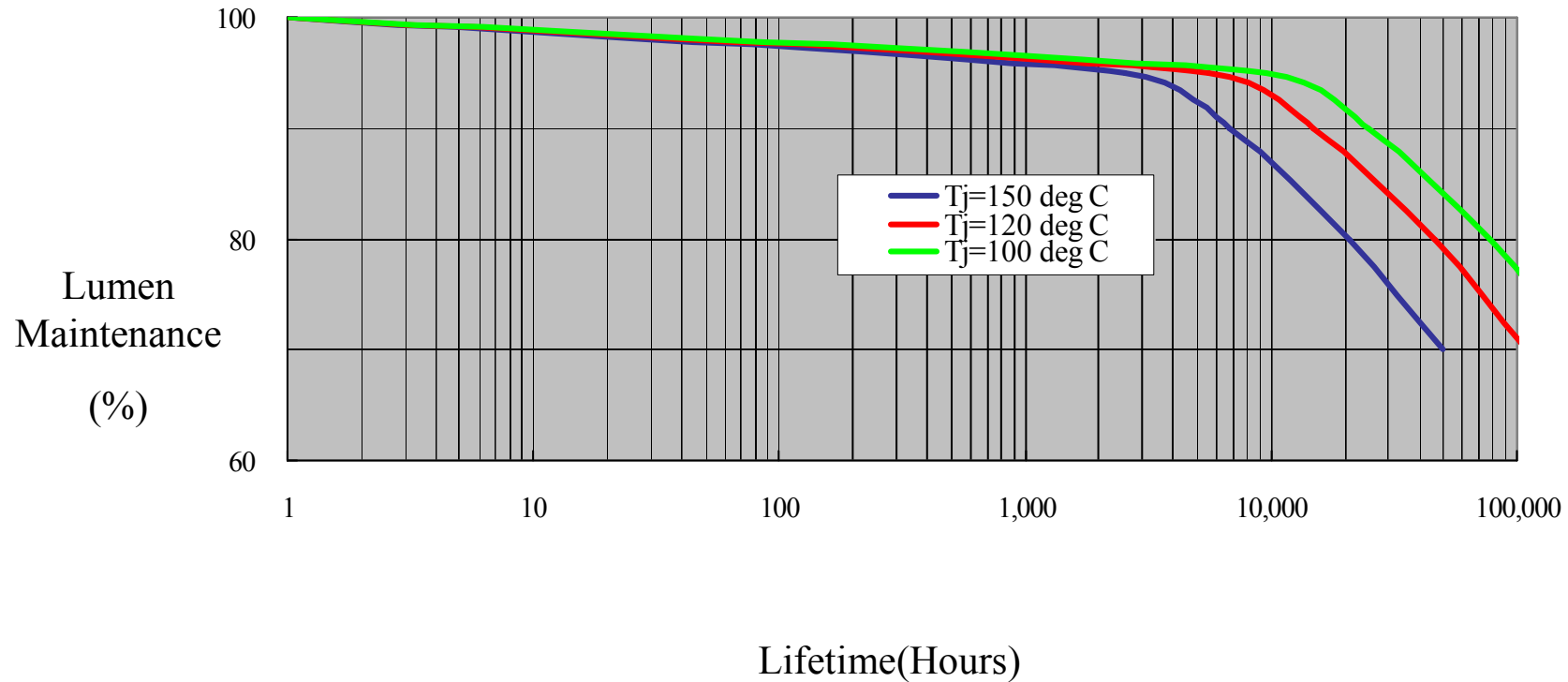
Note 7) Only for CLL030, Tjmax is 150 deg C and IFmax is 120mA/die.

CLL030 Series Lifetime Prediction 2

Reference

(2) Lifetime for CLL030 Series

IF=120mA/die



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.