

# Lifetime Predictions



## 실측 DATA ( $T_{amb.} = 40^{\circ}\text{C}$ , $I_F = 60\text{mA}$ )

(FR4 PCB, 1.5mm Thickness,  $17\mu\text{m}$  Plating thickness)

Time (hr)		1	500	1000	1500	2000	2500	3000	3500	4000
IV [cd]	Value	5.747	5.943	5.995	5.937	5.892	5.710	5.682	5.657	5.646
	Rate[%]	100.0%	103.4%	104.3%	103.3%	102.5%	99.4%	98.9%	98.4%	98.2%

## MTTF Calculation

MTTF	$T_a = 40^{\circ}\text{C}$ , $I_F = 60\text{mA}$	$T_a = 25^{\circ}\text{C}$ , $I_F = 60\text{mA}$
$L_{70}$	22,000hr	32,000hr
$L_{50}$	40,000hr	59,000hr

## Junction Temp. vs MTTF

