

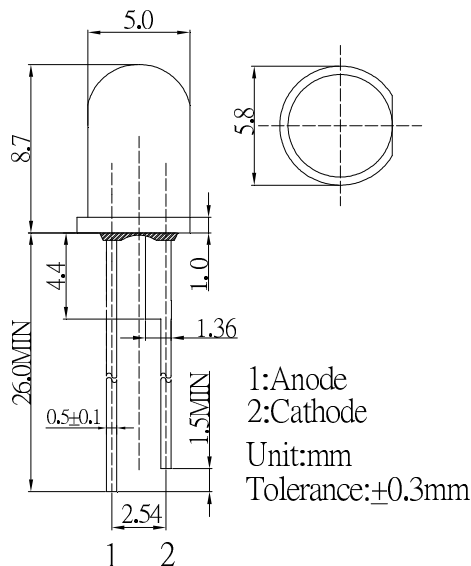
■Features

- High Luminous LEDs
- 5mm Standard Directivity
- Long Lifetime Operation
- Superior Weather-resistance
- UV Resistant Epoxy
- Water Clear Type

■Applications

- Automotive Dashboard Lighting
- Small Area Illuminations
- Back Lighting
- Other Lighting

■Outline Dimension



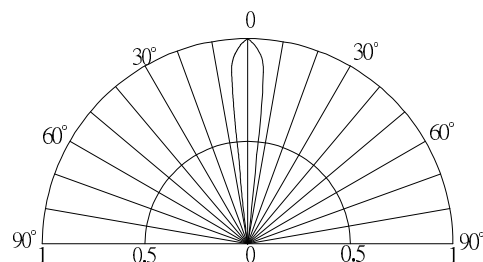
■Absolute Maximum Rating

(Ta=25°C)

Item	Symbol	Value	Unit
DC Forward Current	I_F	50	mA
Pulse Forward Current*	I_{FP}	120	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	190	mW
Operating Temperature	T_{opr}	-30 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +100	°C
Lead Soldering Temperature	T_{sol}	260°C/5sec	-

*Pulse width Max.10ms , Duty ratio max 1/10

■Directivity



■Electrical -Optical Characteristics

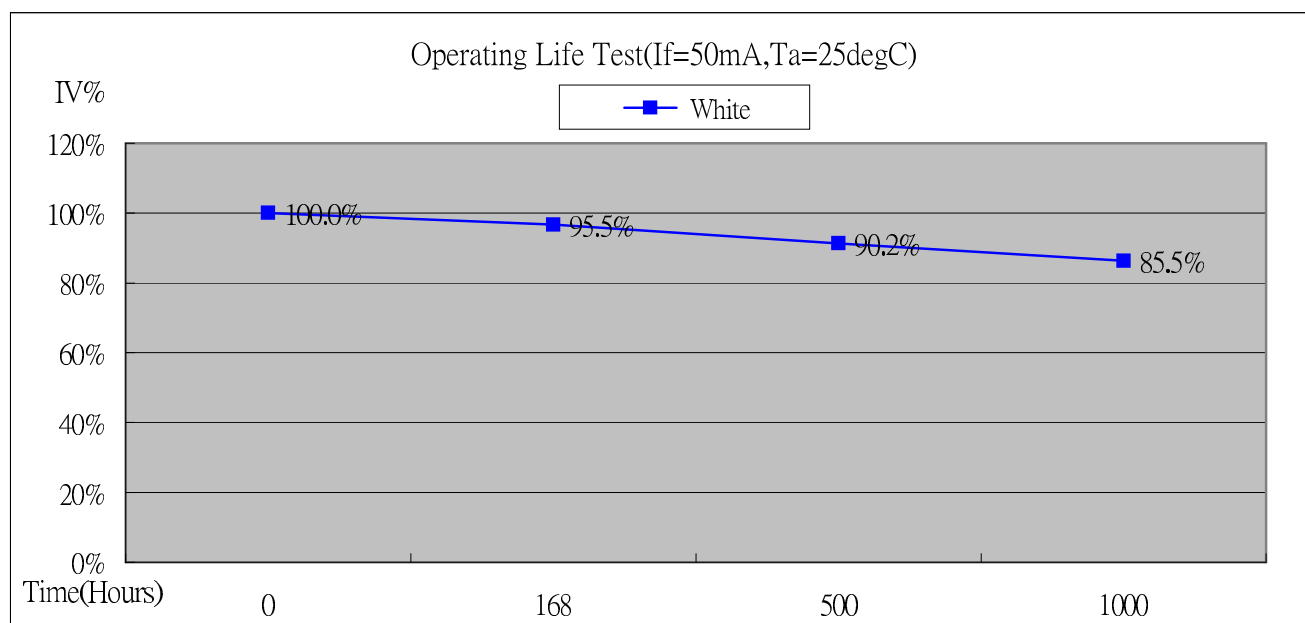
(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage	V_F	$I_F=50mA$	3.0	3.3	3.8	V
DC Reverse Current	I_R	$V_R=5V$	-	-	10	μA
Luminous Intensity*	I_v	$I_F=50mA$	45000	60000	-	mcd
Color Temperature	CCT	$I_F=50mA$	5000	-	6500	K
Chromaticity Coordinates*	x	$I_F=50mA$	-	0.33	-	
	y	$I_F=50mA$	-	0.38	-	
50% Power Angle	$2\theta_{1/2}$	$I_F=50mA$	-	15	-	deg

*1 Tolerance of chromaticity coordinates is ±10%

*2 Tolerance of luminous intensity is ±15%

OPERATION LIFE TEST LUMINANCE RATE CURVE



*Burn-in condition: 50mA

*Projection of Statistical Average Light Output Degradation Performance for LED Technology

Extrapolated from OptoSupply QA Dept. Test Data.

*According to OptoSupply outgoing Packaged Products Specification

*MTBF: 100,000hrs, 90% Confidence (A Failure is Any LED Which is Open, shorted or fails to Emit Light)

*The Projected Data is Base on The Feature of LED Itself Under Normal Operation Conditions.

*Any Improper Circuit Design or External Factors Might Cause a Different Result.