

Part No. AL-30-01UWC Diff No.

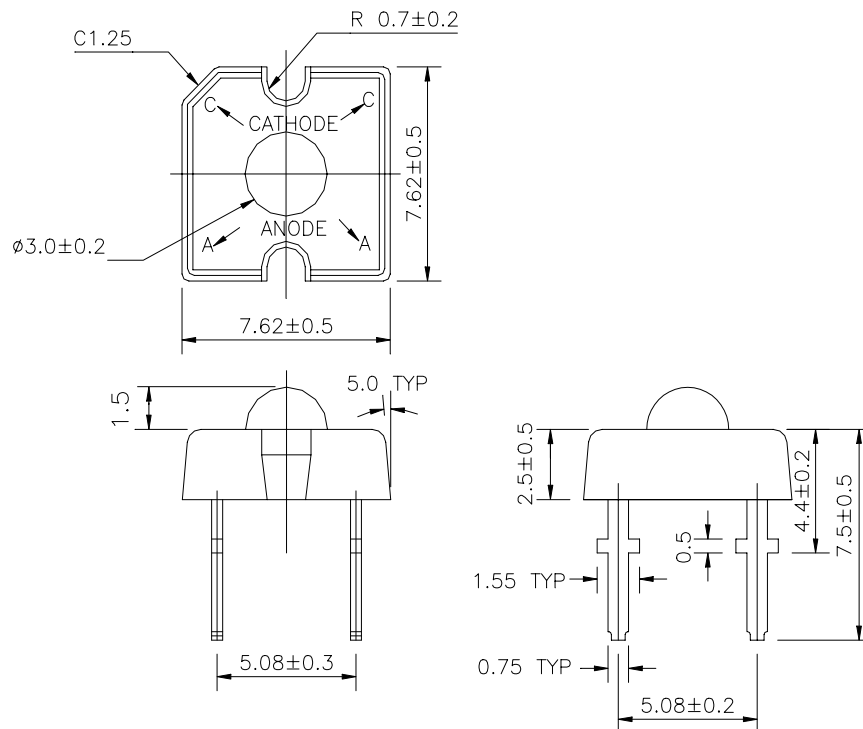
7.62 mm **SUPER FLUX WHITE LED** Type LED Lamps

High Power LED

MODEL NO: AL-30-01UWC

Page: 1/4

■ **Package Dimensions:** **Notes:** All dimensions are in millimeters.



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MODEL NO: AL-30-01UWC

Page: 2/4

■Absolute Maximum Ratings*

Parameter	Symbol	Rating	Units
Forward Current	I _F	30	mA
Pulse Forward Current ^{*1}	I _{FP}	100	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	120	mW
Operating Temperature	T _{opr}	-30 ~ +80	°C
Storage Temperature	T _{stg}	-40 ~ +100	°C
Soldering Temperature ^{*2}	T _{sol}	260	°C

*1. I_{FP} Conditions--Pulse Width ≤ 10msec and Duty ≤ 1/10

*2. Soldering time ≤ 5 seconds

■Electro-Optical Characteristic (Ta=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Forward Voltage	V _F	I _F =20mA		3.5	4.2	V
Reverse Current	I _R	V _R =5V	--	--	10	μA
Brightness	I _V	I _F =20mA	250	500	--	mcd
Viewing Angle	2θ 1/2	I _F =20mA	--	70	--	deg
Chromaticity Coordinates	X	I _F =20mA		0.29		
	y			0.30		

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MODEL NO: AL-30-01UWCPage: 3/4**■Reliability Test Conditions**

NO.	Condition	Test Condition	Test Hour/ Cycle	Sample Size	Accept/ Reject
1	Room Temperature DC Operating Life	Ta=25°C I _F =20mA	1000hrs	80PCS	0/1
2	Thermal Shock	-10°C (5min)→ (10sec) →+100°C (5min)	100cycles	80PCS	0/1
3	Temperature Cycle	-40°C (30min)→ (5min) →+85°C (30min)	100cycles	80PCS	0/1
4	High Temperature/ High Humidity Test	85°C/ 85%RH	1000hrs	80PCS	0/1
5	High Temperature Storage	Ta=100°C	1000hrs	80PCS	0/1
6	Low Temperature Storage	Ta=-40°C	1000hrs	80PCS	0/1
7	Solder Heat	260°C± 5°C	5secs	80PCS	0/1

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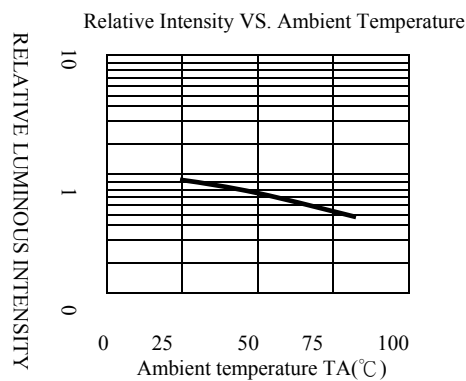
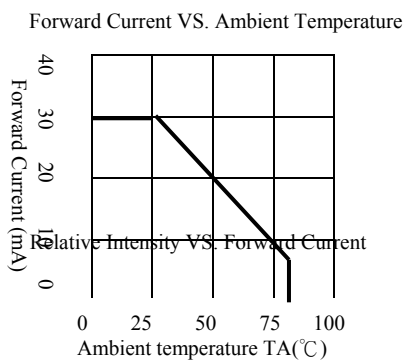
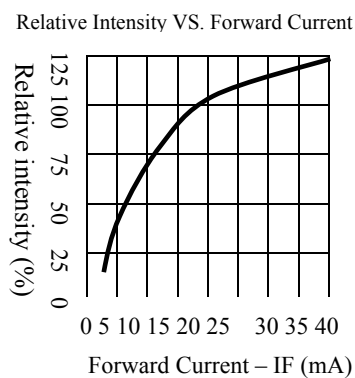
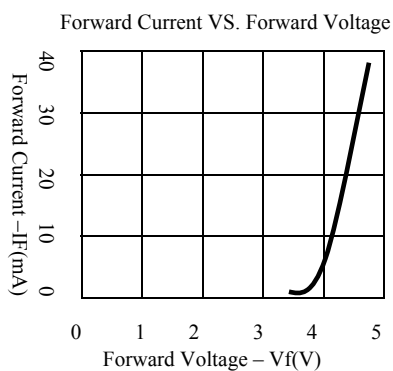
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MODEL NO: AL-30-01UWC

Page: 4/4

■ Typical Electro-Optical Characteristics Curves



● Directivity Radiation Angle: 70 degree (Typ.)

