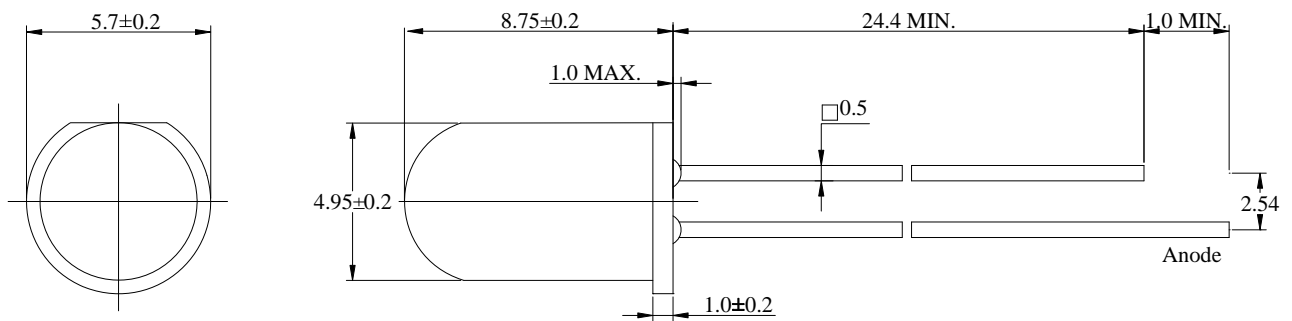


Part No.	<b>AL-5C3UVC-3A-143</b>	Diff No.002
5 mm	Round	Type : LED Lamps

■ Package Dimension:



Notes:

1. All dimensions are in millimeter.
2. An epoxy meniscus may extend about.
  1. 5mm(0.059") down to the lead
3. Tolerances unless Dimension  $\pm 0.25$ mm

■ Features :

- Choice of various viewing angles.
- Available on Tape and Reel.
- Reliable and robust.

■ Descriptions :

- The series is specially designed for application requiring higher brightness.
- The LED lamps are available with different color, intensities, epoxy colors etc.

■ Applications :

- TV set
- Monitor
- Telephone

Part No. **AL-5C3UVC-3A-143** Diff No.002

5 mm

Round

Type : LED Lamps

LED Parts P/N.	Chip		Lens Color
	Material	Emitted Color	
AL-5C3UVC-3A-143	InGaN	UV	Water Clear

■ Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit
Power Dissipation	$P_D$	95	mW
Operating Temperature	$T_{opr}$	-40~+85	°C
Storage Temperature	$T_{stg}$	-40~+100	°C
Soldering Temperature	$T_{sol}$	260±3	°C
Electrostatic Discharge	ESD	1000	V
Peak Forward Current (Duty 1/10@1KHz)	$I_F$ (Peak)	100	mA
Reverse Voltage	$V_R$	5	V

■ Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	$I_v$	300	450	/	mcd	$I_F=20mA$
Viewing Angle	$2\theta_{1/2}$	/	20	/	deg	- - -
Peak Wavelength	$\lambda_p$	395	400	405	nm	$I_F=20mA$
Spectrum Radiation Bandwidth	$\Delta\lambda$	/	30	/	nm	$I_F=20mA$
Forward Voltage	$V_F$	/	3.2	3.8	V	$I_F=20mA$
Reverse Current	$I_R$	/	/	10	μA	$V_R=5V$

Part No. **AL-5C3UVC-3A-143** Diff No.002

5 mm

Round

Type : LED Lamps

**■ Reliability test items and conditions :**

The reliability of products shall be satisfied with items listed below.

Confidence level: 90%

LTPD: 10%

NO	ITEM	Test Conditions	Test hours/cycle	Sample Q'ty	Ac/Re
1	Solder Heat	Temp : 260°C±3°C	5 sec	22 pcs	0/1
2	Temperature Cycle	H : +85°C 15min ∩ 5min L : -40°C 15min	50 cycles	22 pcs	0/1
3	Thermal Shock	H : +100°C 15min ∩ 10sec L : -40°C 15min	50 cycles	22 pcs	0/1
4	High Temperature Storage	Temp : 100°C	1000 hrs	22 pcs	0/1
5	Low Temperature Storage	Temp : -40°C	1000 hrs	22 pcs	0/1
6	DC Operating Life	I <sub>F</sub> =20mA	1000 hrs	22 pcs	0/1
7	High Temperature / High Humidity	85°C / 85%RH	1000 hrs	22 pcs	0/1

Part No. **AL-5C3UVC-3A-143**

Diff No.002

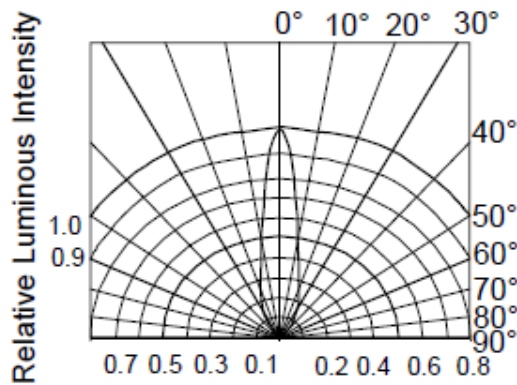
5 mm

Round

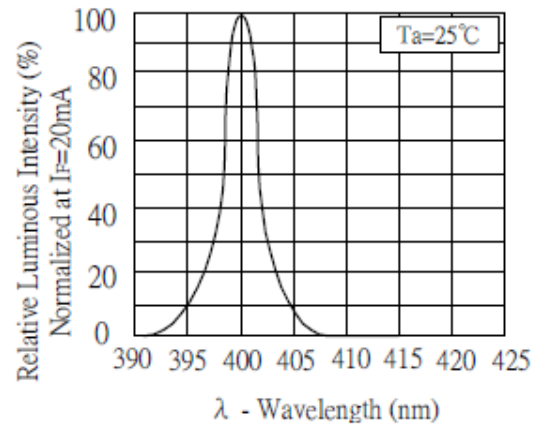
Type : LED Lamps

■ **Typical electro-optical characteristics curves :**

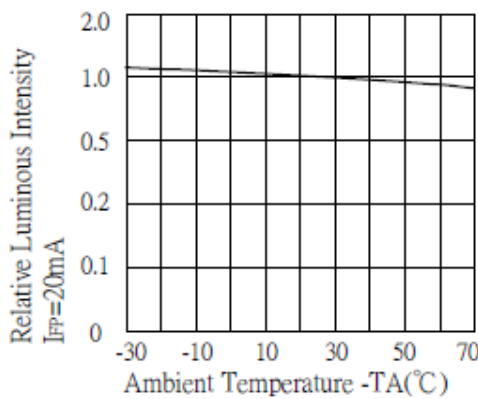
The data typical and the value are not guaranteed.



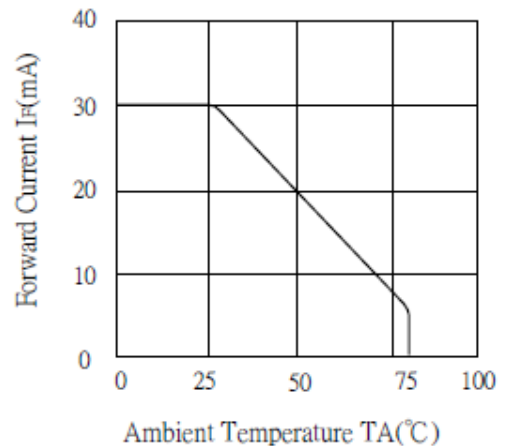
**RADIATION DIAGRAM**



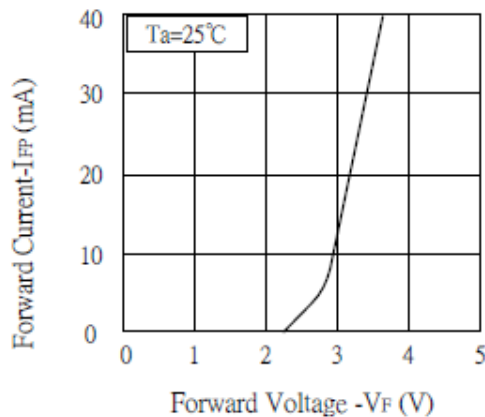
**RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH**



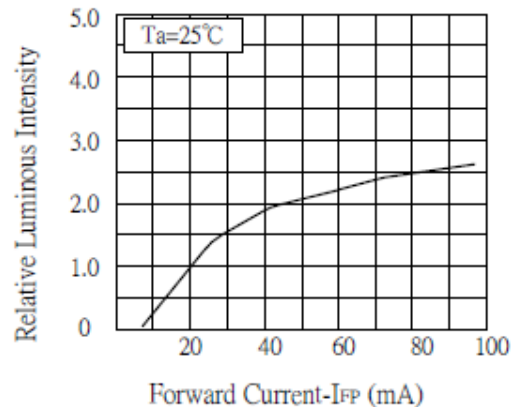
**LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE**



**MAX FORWARD CURRENT Vs. AMBIENT TEMPERATURE**



**FORWARD CURRENT Vs. FORWARD VOLTAGE**



**LUMINOUS INTENSITY Vs. FORWARD CURRENT**