

■ Description

The **LK343UWC** series are **InGaN** Light Emitting Diode, molded in Water Clear plastic Packages.

■ Features

- Popular 5mm diameter package .
- Choice of various viewing angles.
- Available on tape and reel.
- Reliable and robust.
- The product itself will remain within RoHS Compliant version.

■ Applications

- TV set.
- Monitor.
- Telephone.
- Computer.

PART NO.	Chip		Lens Color
	Material	Emitted Color	
FL333UBC	InGaN	Blue	Water Clear

■ Absolute Maximum Ratings (at Ta=25°C)

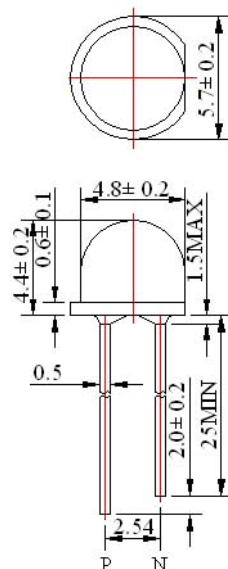
Parameter	Symbol	Maximum Rating	Unit
Power Dissipation	P _D	100	mW
Forward Current	I _F	25	mA
Peak Forward Current (Pulse width ≤ 100 μS duty ≤ 1/10)	I _{FP}	100	mA
Reverse Voltage	V _R	5	V
Operation Temperature	Topr	-25 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +100	°C
Electrostatic Discharge	Esd	150	V
Lead Soldering Temperature (2mm from the case t ≤ 5S)	Tsol	260	°C

Basic Characteristics

$T_a=25^{\circ}\text{C}$

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F=20\text{mA}$	--	3.2		V
Reverse Current	I_R	$V_R=5\text{V}$	--	--	50	μA
Dominant Wavelength	λ_D	$I_F=20\text{mA}$	--	X:0.28	--	nm
Peak Wavelength	λ_P	$I_F=20\text{mA}$	--	Y:0.29	--	nm
Spectral Bandwidth	$\Delta \lambda$	$I_F=20\text{mA}$	--		--	nm
Luminous Intensity	I_V	$I_F=20\text{mA}$		1800	--	mcd
50% View Angle	$2\theta_{1/2}$	$I_F=20\text{mA}$	--	110	--	deg

Package Dimensions



Notes: without special declared, the tolerance is $\pm 0.25\text{mm}$

■ Typical Electrical / Optical / Characteristics Curves

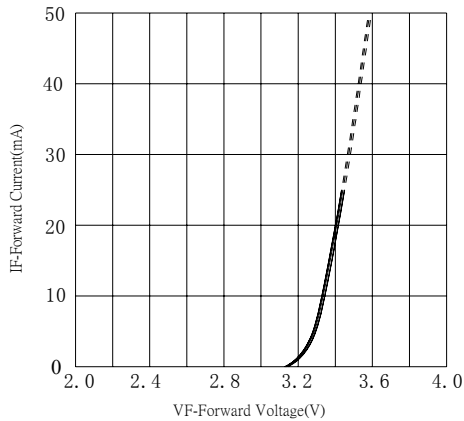


Fig.1 Forward Current vs. Forward Voltage

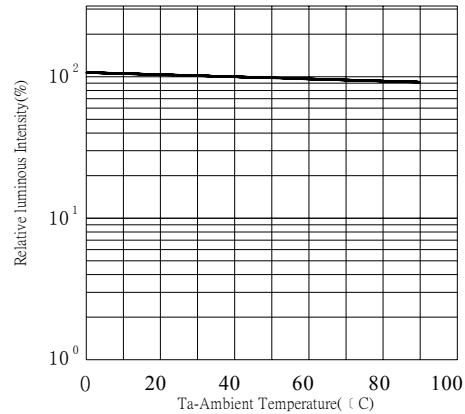


Fig.2 Relative luminous Intensity vs. Ambient Temperature

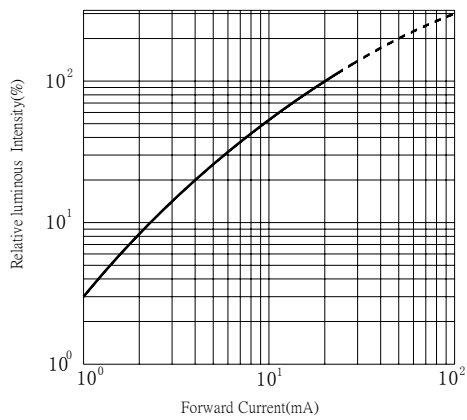


Fig.3 Relative luminous Intensity vs. Forward Current

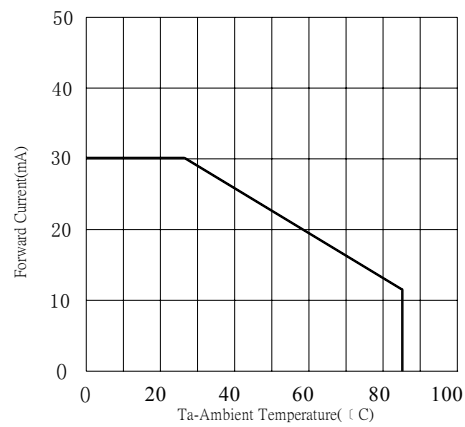


Fig.4 Forward Current vs. Ambient Temperature

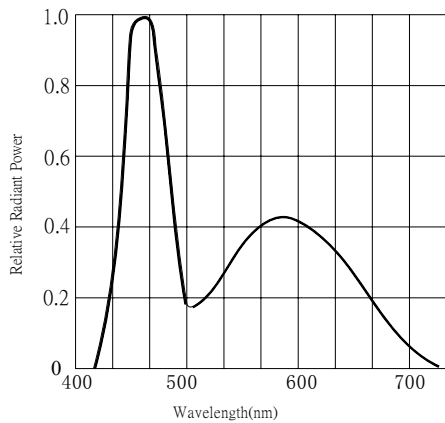


Fig.5 Relative Radiant Power vs. Wavelength

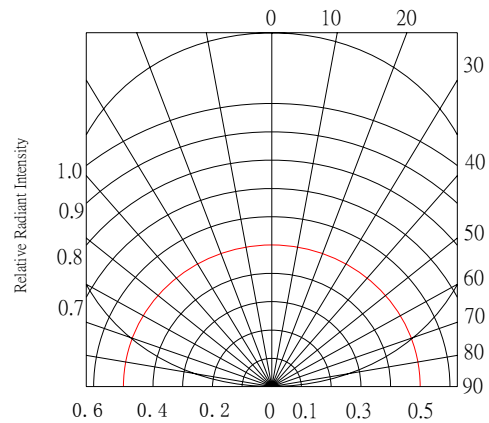


Fig.6 Relative Radiant Intensity vs. Angular Displacement