

ARL-5613UWC-12cd



Features

High efficiency Low Power consumption General purpose leads Selected minimum intensities Available on tape and reel Pb free

Applications

Status indicators Commercial use Advertising Signs Back lighting



Descriptions

The series is specially designed for applications requiring higher brightness The LED lamps are available with different colors, intensities, epoxy colors, etc Superior performance in outdoor environment

Usage Notes:

The ultra bright LED is an electrostatic insensitive device, so static electricity and surge will damage the LED. It is required to wear a wrist-band when handling the LED. All device, equipment, machinery, desk and ground must be properly grounded

When using LED, it must use a protective resistor in series with DC current about 20mA

Package Dimensions



UNIT:mm

Notes:

Other dimensions are in millimeters, tolerance is 0.25mm except being specified.

Protruded resin under flange is 1.5mm Max LED.

Bare copper alloy is exposed at tie-bar portion after cutting.



Device Selection Guide

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LED Part No.	Material	Emitted Color	Lens Color	
ARL-5613UWC-12cd	InGaN	Cold White	Water clear	

Absolute Maximum Rating (Ta=25°C)

Parameter	Symbol	Absolute Maximum Rating	Unit
Reverse Voltage	V _R	5	V
Operating Temperature	Topr	-40~+80	
Storage Temperature	Tstg	-40~+100	
Soldering Heat (5s)	Tsol	260	

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Nin.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	I_V	1200 0	1600 0	18000	mcd	IF=20mA(Note 1)
Viewing Angle	20 _{1/2}	10	15	20	Deg	(Note 2)
Peak Emission Wavelength	λр	70	000-800 X=0.26 Y=0.28	1	nm	IF=20mA
Spectral Line Half-Width	Δλ	15	25	30	nm	IF=20mA
Forward Voltage	V_{F}	2.9		3.5	V	IF=20mA
Reverse Current	I_R			10	μA	VR=5V

Note:

1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.

2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.



Typical Electro-Optical Characteristics Curves



Notes

- 1. Above specification may be changed without notice. HYLED will reserve authority on material change for above specification.
- 2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. HYLED assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
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