

ARL-3214UWC-10cd

FEATURES

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



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

APPLICATIONS

- Status indicators.
- Advertising Signs
- Commercial use.
- Back lighting

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

Device Selection Guide

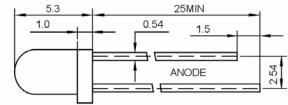
LED Part No.		Lens Color	
	Material	Emitted Color	Letis Cotoi
ARL-3214UWC-10cd	InGaN	White	Water clear

PACKAGE DIMENSIONS

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.





Absolute Maximum Rating (Ta=25°C)

Parameter	Symbol	Absolute Maximum Rating	Unit
Forward Pulse Current	I _{FPM}	70	mA
Forward Current	I _{FM}	30	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_{D}	140	mW
Operating Temperature	Topr	-40 ~+80	°C
Storage Temperature	Tstg	-40 ~+100	°C
Soldering Heat (5s)	Tsol	260	°C

Electro-Optical Characteristics (Ta=25 °C)

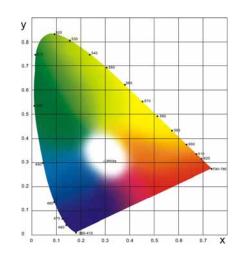
Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	lv		8000	10000	mcd	IF=20mA
Viewing Angle	2θ _{1/2}		20		Deg	(Note 1)
Peak Emission Wavelength	λр				nm	IF=20mA

Spectral Line Half-Width	Δλ	25	30	35	nm	IF=20mA
Forward Voltage	V_{F}	2.9		3.5	V	IF=20mA
Reverse Current	I _R			10	μΑ	VR=5V

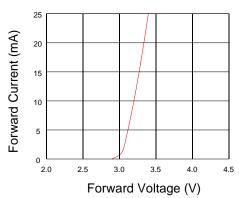
Note:

- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- θ1/2 is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

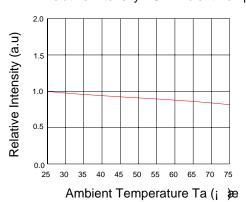
TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES



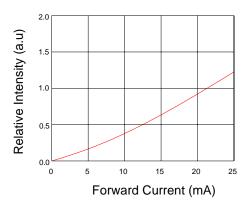
Forward Current VS.Forward Voltage



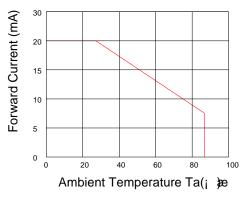
Relative Intensity VS. Ambient Temp



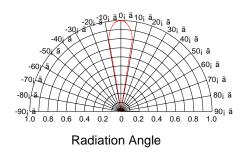
Forward Current VS.Relative Intensity



Forward Current VS.Ambient Temp.



Radiation Characteristics



Note:

- Above specification may be changed without notice. Factory will reserve authority on material change for above specification.
- When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these
 specification sheets. Factory 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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