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





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

Applications

'Status indicators

'Commercial use

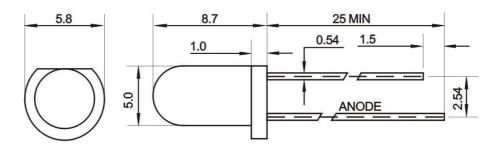
Advertising Signs

Back lighting

Device Selection Guide

I ED D (N	Cl	nip	Lens Color	
LED Part No.	Material	Emitted Color		
ARL-5213PGC-12cd	InGaN	Green	Water clear	

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.

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

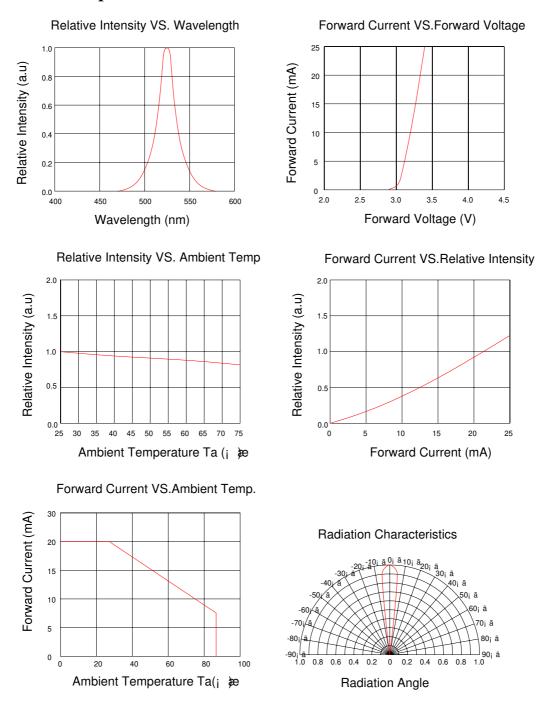
Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	10000		12000	mcd	IF=20mA(Note1)
Viewing Angle	$2\theta_{1/2}$	18		20	Deg	(Note 2)
Peak Emission Wavelength	λр	520	525	530	nm	IF=20mA
Spectral Line Half-Width	λ	30	35	40	nm	IF=20mA
Forward Voltage	V_{F}	3.0		3.5	V	IF=20mA
Reverse Current	I_R			10	μΑ	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

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.