ВЫВОДНОЙ СВЕТОДИОД КРУГЛЫЙ ARL-5613PGW-6cd

FEATURES

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

DIFFUSED

arlight

BLUISH

USAGE NOTES: Surge will damage the LED.

5 mm

When using LED, it must use a protective resistor in series with DC current about 18–20 mA.

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.
- Commercial use.
- Advertising signs.

DEVICE SELECTION GUIDE

LED Part No				
LED Part No.	Material	Emitted Color	Lens Color	
ARL-5613PGW-6cd	InGaN	Cyan Green	White Diffused	





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PACKAGE DIMENSIONS





Unit: mm.

Notes:

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

Protruded resin under flange is 1.5 mm, Max LED.

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

ABSOLUTE MAXIMUM RATING $(T_A = +25 \circ C)$

Parameter	Symbol	Absolute Maximum Rating	Unit
Forward Pulse Current	I _{FPM}	70	mA
Forward Current	I _{FM}	25	mA
Reverse Voltage	V _R	5	v
Power Dissipation	P _D	120	mW
Operating Temperature	Topr	-40+80	°C
Storage Temperature	Tstg	-40 +100	°C
Soldering Heat (5s)	Tsol	260	°C

ELECTRO-OPTICAL CHARACTERISTICS $(T_A = +25 \circ C)$

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	lv	4000	—	6000	mcd	lf=20mA (Note 1)
Viewing Angle	20 _{1/2}	30	-	50	Deg	Note 2
Peak Emission Wavelength	$\lambda_{_{P}}$	510	_	520	nm	lf=20mA
Dominant Wavelength	Δλ	30	35	40	nm	lf=20mA
Forward Voltage	V _F	2.9	_	3.3	v	lf=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



Relative Intensity VS Ambient Temp



Forward Current VS Ambient Temp





Forward Current VS Relative Intensity



Radiation Characteristics





NOTES

- 1. Above specification may be changed without notice. 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. 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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