

КРУГЛЫЙ

ARL-5213VC-200mcd

FEATURES

- Low power consumption.
- General purpose leads.
- Reliable and rugged.
- Long life solid state reliability.
- Available on tape and reel.
- 7 RoHS compliant.

DESCRIPTIONS

- 7 The source color devices are made with InGaN on SiC light emitting diode.
- 7 This device radiates intense ultraviolet (UV) light when operated. Most of the UV light emitted is not visible. Exposure to UV radiation can be harmful to your health. Protect your eyes and skin during the operation. Do not look directly at the device during the operation.
- Exposure to UV light, even for a brief period, can damage your eyes.
- Do not operate the device unless you have had proper safety training and take appropriate precautions.
- Do not permit children or untrained personnel to operate
- Static electricity and surge damage the LEDs. It is recommended to use a wrist band or anti-static gloves when handling the LEDs.
- All devices, equipment and machinery must

USAGE NOTES:

Surge will damage the LED.

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









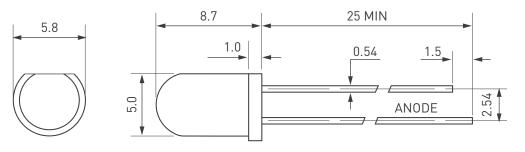
DEVICE SELECTION GUIDE

LED Part No.		Lens Color	
	Material	Emitted Color	Lens Color
ARL-5213VC-200mcd	InGaN	Ultra violet	Water clear





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 $(T_A = +25 \, ^{\circ}\text{C})$

Parameter	Symbol	Absolute Maximum Rating	Unit
Reverse Voltage	$\mathbf{V}_{_{\mathbf{R}}}$	5	٧
Operating Temperature	Topr	-40 +80	°C
Storage Temperature	Tstg	-40 +100	°C
Soldering Heat (5s)	Tsol	260	°C

ELECTRO-OPTICAL CHARACTERISTICS (T_A=+25°C)

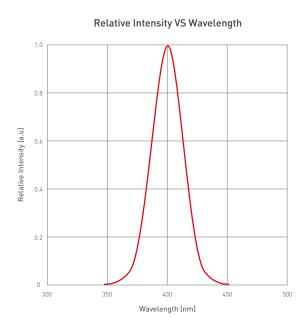
Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	lv	1000	_	1200	mcd	If=20mA (Note 1)
Viewing Angle	2θ1/2	10	15	20	Deg	Note 2
Peak Emission Wavelength	$\lambda_{_{P}}$	390	_	400	nm	If=20mA
Dominant Wavelength	Δλ	_	395	_	nm	If=20mA
Forward Voltage	V_{F}	3.0	3.3	3.5	٧	If=20mA
Reverse Current	I _R	_	_	10	μΑ	VR=5V

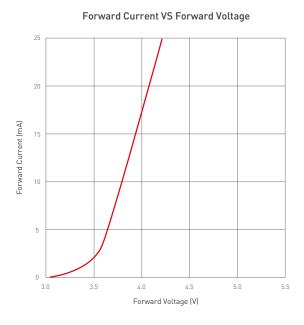
Note:

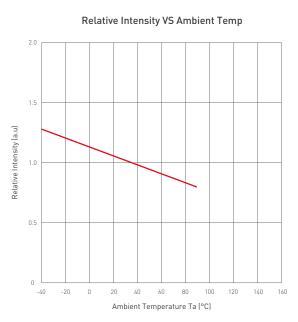
- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

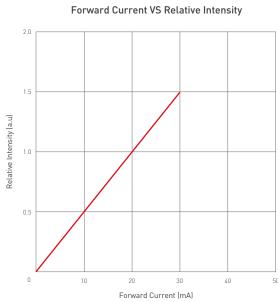


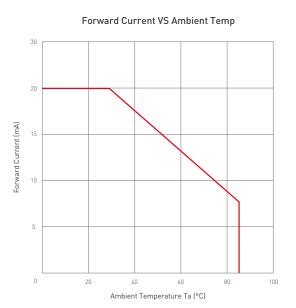
TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES

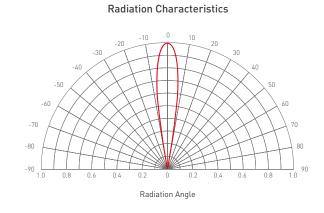














NOTES

- 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.
- 3. These specification sheets include materials protected under copyright of the corporation. Please don't reproduce or cause anyone to reproduce them without consent.