SPECIFICATION

ARL-5923UWW

FEATURES

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

DESCRIPTION

- 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

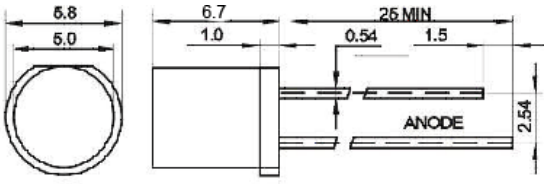
USAGE NOTES

- 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.

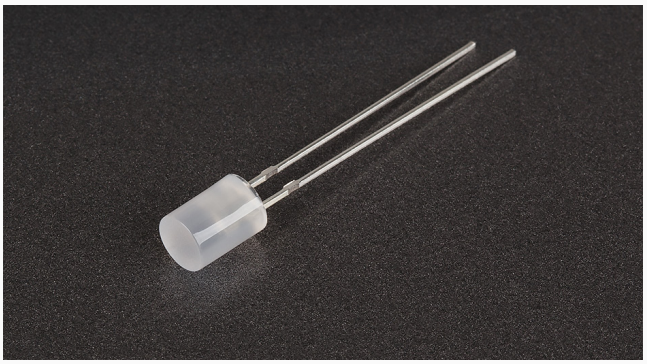
APPLICATIONS

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

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.



TECHNICAL SPECIFICATIONS

Part number	**011368**
Model	**ARL-5923UWW-1.2cd Warm**
Color	**Warm White**
Chip Material	**InGaN**
Lens Type	**White Diffused**

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit
Peak Forward Current (Duty /10 @ 1KHZ)	I_{FPM}	60	mA
Forward Current	I_{FM}	25	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	180	mW
Operating Temperature	T_{opr}	-40~+80	°C
Storage Temperature	T_{stg}	-40~+100	°C
Soldering Heat (5s)	T_{sol}	260	°C

Electrical / Optical Characteristics-White (At TA=25°C)

Parameter	Symbol	Min	Typ	Max	Units	Test Conditions
Luminous Intensity	V_F	800	---	1200	mcd	IF=20mA(Note1)
Viewing Angle	$2_{\theta 1/2}$	80	---	100	Deg	(Note 2)
Emission Wavelength	λp	X=0.44 CRI: Y=0.40 3500-4500K			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	μA	VR=5V

Notes 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. θ1/2 is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

TYPICAL OPTICAL CHARACTERISTICS CURVES