

# 5W4HCA-H20

Super Bright White LED

## Features

high intensity LED lamp  
5 mm round epoxy package  
UV resistant epoxy for outdoor use

## Applications

indicators  
illumination

## Absolute Maximum Ratings ( Ta = 25 °C )

Parameter	Symbol	Max	Unit
Power Dissipation	P <sub>d</sub>	100	mW
Peak Forward Current *)	I <sub>FP</sub>	80	mA
Continuous Forward Current	I <sub>F</sub>	<b>30</b>	mA
Reverse Voltage	V <sub>R</sub>	5	V
Operating Temperature Range	T <sub>opr</sub>	-30 to +80 °C	
Storage Temperature Range	T <sub>stg</sub>	T <sub>stg</sub> -40 °C to +100 °C	
Lead Soldering Temperature **)	T <sub>sol</sub>	260	°C

\*) Duty cycle max. 1/10, Pulse Width max. 0.1 ms

\*\*) At the position of 4 mm from the bottom of the package within 5 seconds

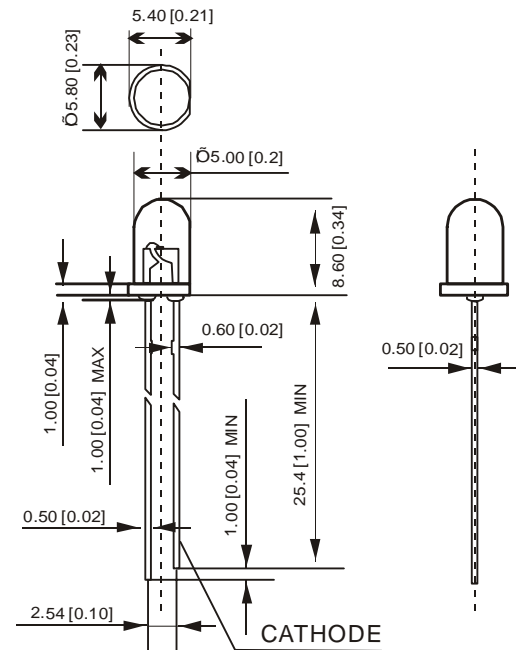
## Electrical Optical Characteristics ( Ta = 25 °C @ I<sub>f</sub> = 20 mA )

Part No.	Material	Lens	Emitting Color	Forward Voltage (V)		Luminous Intensity (mcd)		Chromaticity Coordinate (x/y)	Viewing Angle (2θ1/2)
				Typ	Max	Min	Max		
5W4HCA-H20	InGaN	Water Clear	White	3.2	3.6	19000	25000	0.32/0.30	20

## Caution in ESD

- 1.Static electricity and surge damages the LEDs. It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs. All devices and equipment and machinery must be properly grounded.
- 2.When inspecting own final products on which LEDs were mounted, It is easy to find static-damaged LEDs by light emission test at lower current (below 1 mA is recommended) .
- 3.Damaged LEDs will show some unusual characteristics such as leak current remarkably increases, starting forward voltage becomes lower, or the LEDs get unlighted at the low current.

## Package Dimensions



Unit: mm[inches]

Tolerance:  $\pm 0.25\text{mm}0.01$