LIGHTHOUSE LEDs

Technical Data Sheet

Product Name:	5mm Blue LED - Ultra Bright .5 Watt
Part Number:	5MMHALFWATTBLUE
SKU:	5MMHALFWATTBLUE
Package:	5mm (T-1¾) Round Top 0.5W
Date:	2026-10-08

Document Control

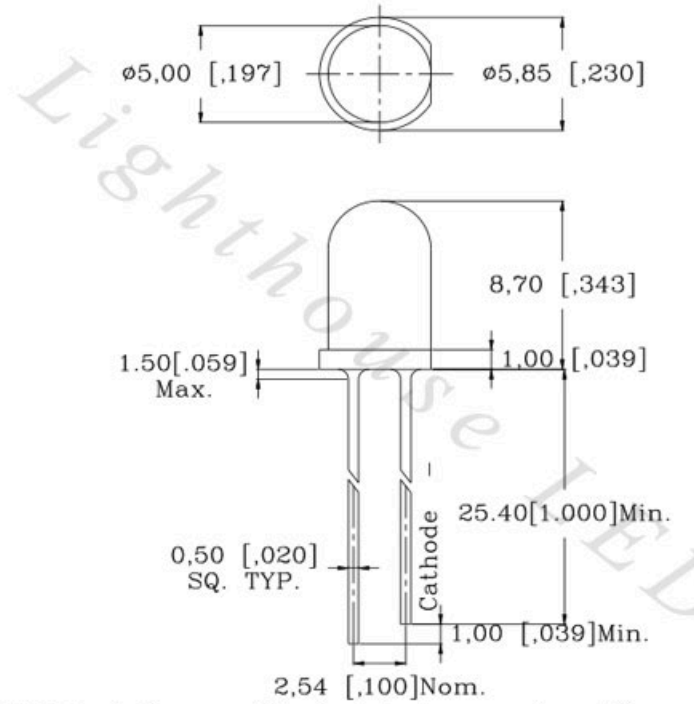
Prepared by	Checked by	Approved by

Lighthouse LEDs

1. Features

- Package: 5mm (T-1¾) Round Top 0.5W
- Mounting: Through-hole
- Color: Blue
- Lens: Clear
- Rated drive current: 100-120mA

2. Outline Dimensions



**LED leads for a specific size/color/type may be a different length than shown,but will be the same consistency in size for that specific size/shape/color LED.*

Unit	Lens Color	Emission Color
mm [inch]	Clear	Blue

3. Electrical / Optical Characteristics

Parameter	Symbol	Test Condition	Min	Typ.	Max	Unit
Forward Voltage	VF	IF = 100-120mA	3.2	—	3.4	V
Luminous Flux	ΦV	IF = 100-120mA	10	—	15	lm
Viewing Angle	2θ1/2	IF = 100-120mA	20	—	30	°
Dominant Wavelength	λd	IF = 100-120mA	460	—	465	nm

Values are the published Lighthouse LEDs specifications for this part. For reference only; verify critical parameters for production designs.

4. Rated Operating Conditions

Parameter	Symbol	Value	Unit
Drive Current	IF	100-120	mA
Nominal Power	P	0.5	W

Absolute maximum ratings, operating and storage temperature ranges, and soldering conditions are not published for this part. Contact support@lighthouseleds.com before designing to limits.

5. Application Notes

- Always use a current-limiting resistor. See **lighthouseleds.com/blog/led-resistor-calculator.html**
- For AC or DCC power, add a bridge rectifier. See **lighthouseleds.com/blog/bridge-rectifier-led-ac-dcc-landscape-lighting.html**
- Observe polarity: longer lead = anode (+), shorter lead = cathode (−); see outline drawing.
- Operate within the rated drive current (100-120mA).

Lighthouse LEDs, LLC — Medical Lake, WA 99022
lighthouseleds.com — support@lighthouseleds.com — 509-220-7537
Specifications subject to change without notice. Data is for reference only.