

# 5mm (T-1 3/4) Round Type Narrow Angle LED Lamp Ultra Green

**multicomp** PRO



**RoHS  
Compliant**

## Specifications

Dice Material	: InGaN
Emitted Colour	: Ultra Green
Lens Colour	: Water Clear
Peak Wavelength	: 525nm
Viewing Angle	: 20 Deg.
Luminous Intensity (IV)	: 25000mcd

## Electrical / Optical Characteristics at TA = 25°C

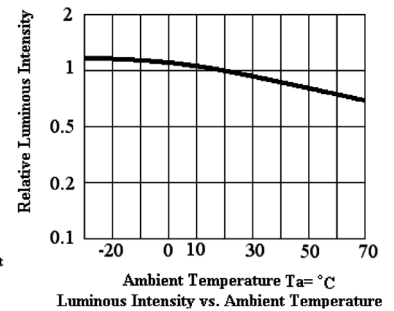
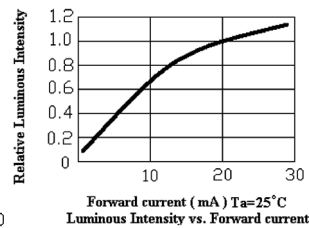
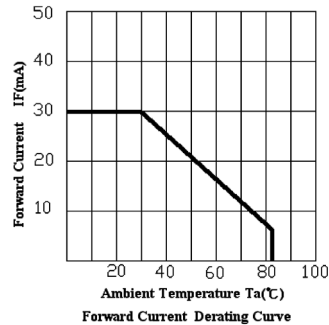
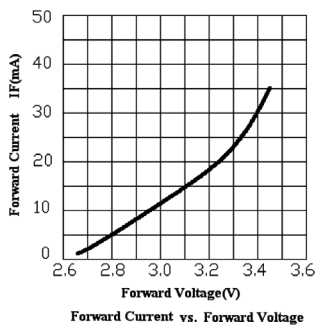
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test
Luminous Intensity	IV	18500	25000	35000	mcd	IF = 20mA
Viewing Angle	2θ1/2		20		Deg.	
Peak Emission Wavelength	λp		525		nm	
Dominant Wavelength	λD	515	520	530	nm	
Spectral Line Half-Width	Δλ		36		nm	
Forward Voltage	VF	2.9	3.2	3.5	V	
Power Dissipation	Pd			85	mW	
Peak Forward Current (Duty1/10 @ 1kHz)	IF (Peak)			100	mA	
Recommended Operating Current	IF (Rec)		20		mA	

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

Reverse Voltage	: 5 Volt
Reverse Current	: 10μA (VR = 5V)
Electrostatics Discharge (ESD)	: 200 Volt
Operating Temperature Range	: -40°C to +85°C
Storage Temperature Range	: -40°C to +100°C
Lead Soldering Temperature Range	: 260°C For 5 Seconds (1.6mm (1/16 inch) from body)

## Typical Electro-Optical Characteristics Curves

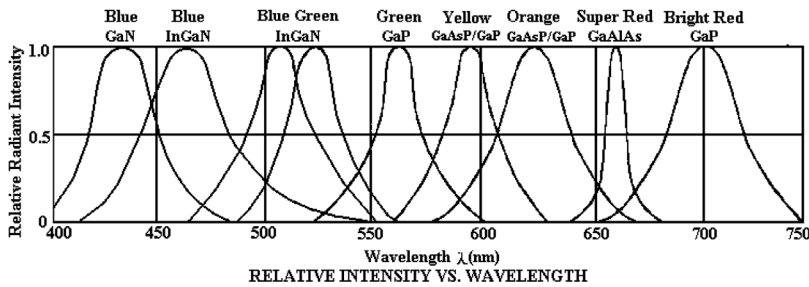
Ultra Green (InGaN λP = 525nm)



Newark.com/exclusive-brands  
Farnell.com/exclusive-brands  
Element14.com/exclusive-brands

**multicomp** PRO

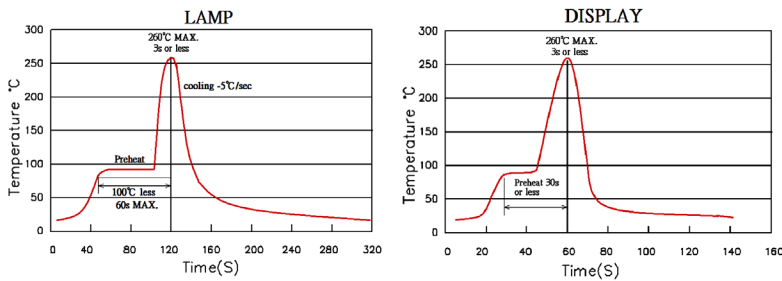
# 5mm (T-1 3/4) Round Type Narrow Angle LED Lamp Ultra Green



## Soldering

Recommended soldering condition as shown below:

### Soldering heat (DIP)

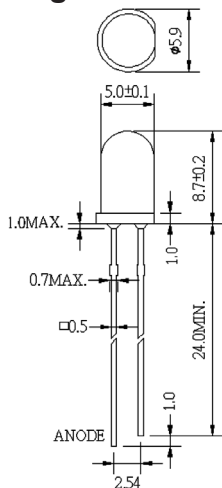


### Soldering Iron

Temperature at tip of iron: 350°C Max.

Soldering Time: 3 sec.  $\pm$  1 sec. (one time only) If temperature is higher, time should be shorter

## Diagram



Dimensions : Millimetres  
Tolerance:  $\pm$ 0.25mm

## Part Number Table

Description	Part Number
5mm (T-1 3/4) Round Type Narrow Angle LED Lamp, Ultra Green, Water Clear Lens, 20°	MP000439

**Important Notice :** This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/exclusive-brands  
Farnell.com/exclusive-brands  
Element14.com/exclusive-brands

