

## 5mm Round LED (T-1 3/4)

### Features

- Popular T-1 3/4 diameter package
- Low Power Consumption
- High Efficiency
- Reliable and robust
- RoHS compliance



T-1 3/4



### Descriptions

- The series is specially designed for applications requiring higher brightness.
- The LED lamps are available with different colors, intensities.

### Applications

- Audio Equipment
- Monitor
- Sign Board
- Computer
- Air Condition
- Satellite Receiver
- Burglar Alarm

### Device Selection Guide

Part No.	Chip		Lens Color
	Material	Emitted Color	
TLH-B1R5-3332B9	InGaN/SiC	Super Blue	Water Clear

# 5mm Round LED

## TLH-B1R5-3332B9

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

Parameter	Symbol	Value	Unit
Reverse Voltage	<b>VR</b>	5	V
Continuous Forward Current	<b>IF</b>	30	mA
Power Dissipation	<b>Pd</b>	120	mW
Electrostatic Discharge	<b>ESD</b>	150	V
Soldering Temperature (Note.1)	<b>Tsol</b>	260 ±5	°C
Operating Temperature	<b>Topr</b>	-40 ~ +85	°C
Storage Temperature	<b>Tstg</b>	-40 ~ +100	°C

**Note 1:**

Soldering time ≤ 5 seconds

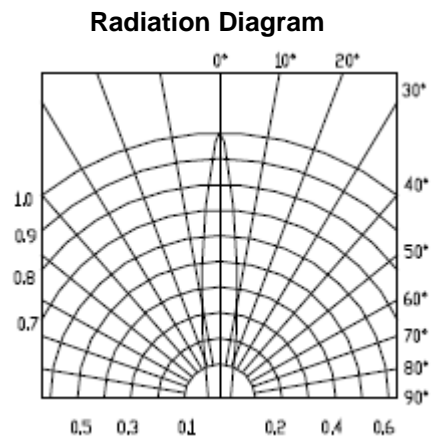
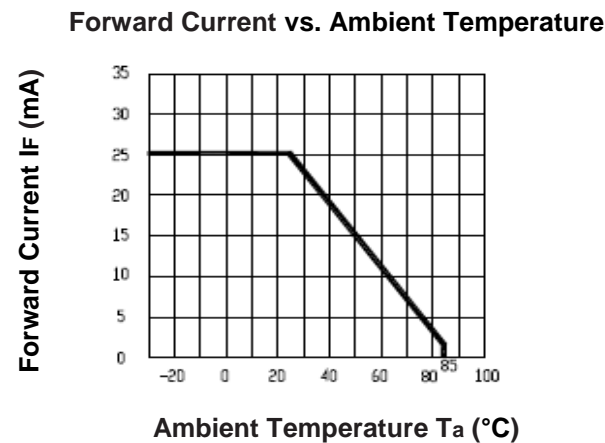
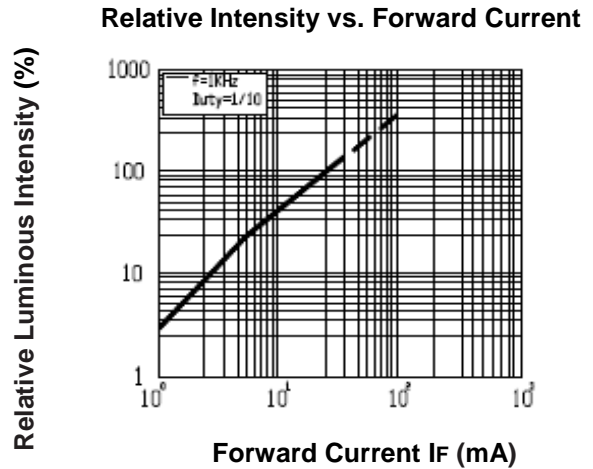
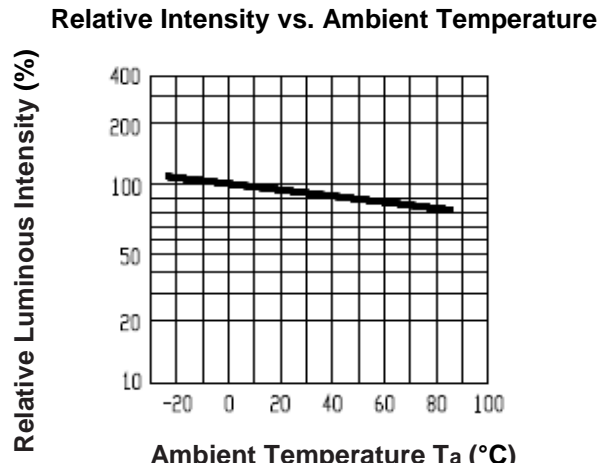
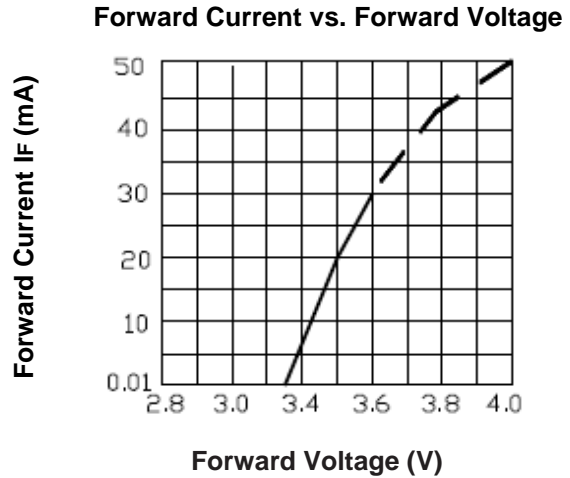
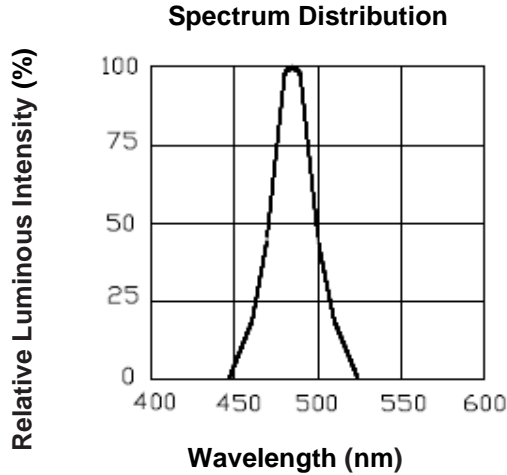
### Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	<b>Iv</b>	1600	3200	-----	mcd	IF =20mA
Viewing Angle	<b>2θ1/2</b>	-----	15	-----	deg	
Peak wavelength	<b>λp</b>	-----	468	-----	nm	
Dominant wavelength	<b>λd</b>	-----	470	-----	nm	
Spectrum Radiation Bandwidth	<b>Δλ</b>	-----	35	-----	nm	
Forward Voltage	<b>VF</b>	-----	3.4	4.0	V	
Reverse Current	<b>IR</b>	-----	-----	10	μA	VR=5V

# 5mm Round LED

## TLH-B1R5-3332B9

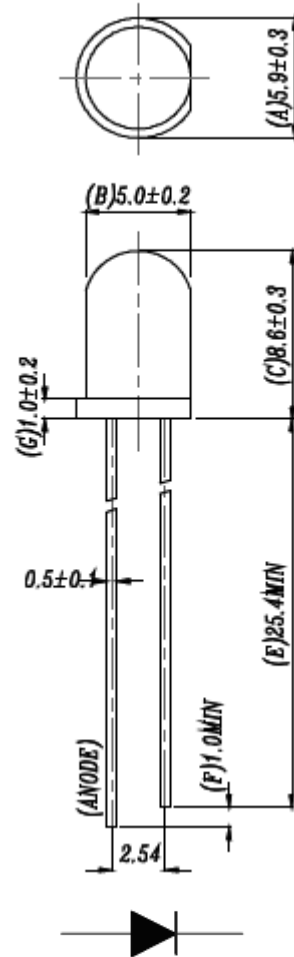
### Typical Electro-Optical Characteristics Curves (T<sub>a</sub>=25°C)



# 5mm Round LED

## TLH-B1R5-3332B9

### Package Dimensions (In mm)



**Note:**

1. All dimensions are in millimeters, and tolerance is 0.25mm without special declared.
2. An epoxy meniscus may extend about 1.5mm down the lead.

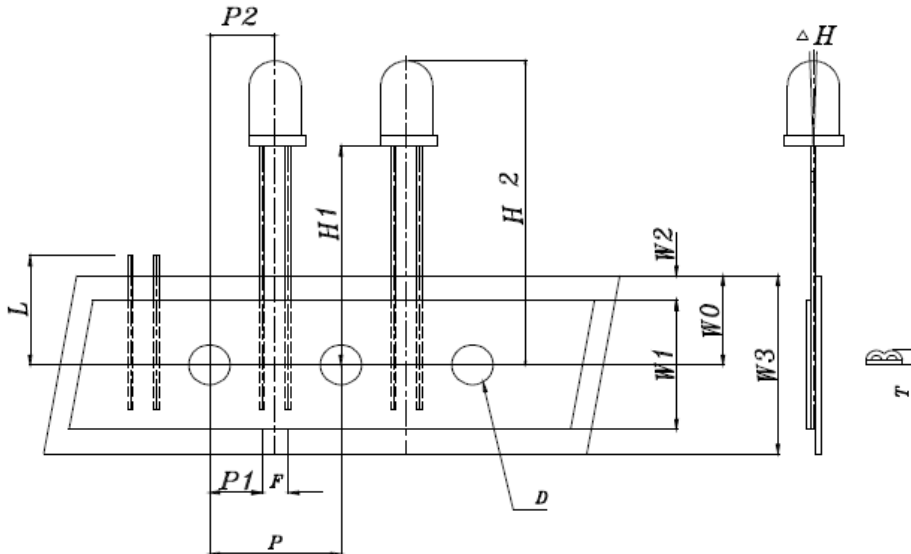
### Packing Quantity Specification

Packing Type	PCS per Bag or Reel	PCS Per Inner Box	PCS Per Carton
Bulk	500	2,500	25,000
Ammo & Tape	-----	2,000	20,000

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## TLH-B1R5-3332B9

### Tapping Package



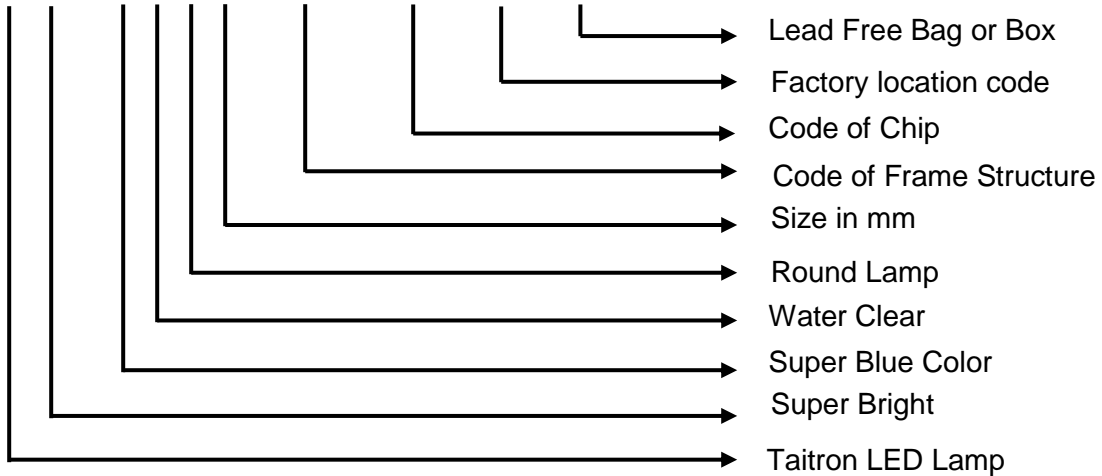
Symbol Items	Symbol	Specifications		
		Avg.		Tolerance (mm)
		mm	Inch	
Tape Feed Hole Diameter	D	4.0	0.157	±0.2
Component Lead Pitch	F	2.54	0.100	+0.8/-0.2
Front-to-Read Deflection	$\Delta H$	0	0	±5°
Feed Hole to Button of Component	H1	18.50	0.728	±1.0
Feed Hole to Overall Component Height	H2	23.70	0.933	±1.0
Lead Length after Component Removal	L	11.00	0.433	MAX
Feed Hole Pitch	P	12.70	0.500	±0.3
Lead Location	P1	5.08	0.200	±0.7
Center of Component Location	P2	6.35	0.250	±1.2
Overall Taped Package Thickness	T	1.42	0.056	MAX
Feed Hole Location	W0	9.00	0.354	±0.5
Adhesive Tape Width	W1	13.00	0.512	±0.5
Adhesive Tape Position	W2	2.00	0.079	MAX
Tape Width	W3	18.00	0.709	±0.75

**Note:**

1. All dimensions are in millimeters, and tolerance is 0.25mm without special declared.
2. Lead space is measured where the lead emerge from the package.

Ordering Information

TL H - B 1 R 5 - 3332 - B9 - 92 - BL


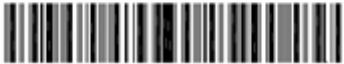


Label Explanation

CAT: Luminous Intensity Rank

HUE: Dom. Wavelength Rank

REF: Forward Voltage Rank

CPN :  
P/N: XXXXXXXXXXXX  
  
XX-XXXXXXXX  
QTY: XXXX  
  
LOT NO: XXXXXXXX  
CAT: Bin Iv  
HUE: Bin λd  
REF: Bin VF  


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