

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

Features

- Popular T-1 3/4 diameter package
- General purpose leads
- Selected minimum intensities
- RoHS compliance



QRLHT1R5



Descriptions

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

Applications

- Color Graphic Signs
- Commercial Use
- Advertising Signs
- Back lighting

Device Selection Guide

Part No.	Chip		Lens Color
	Material	Emitted Color	
TLH-T1R5-333Z-VY	InGaN/SiC	True Green	Water Clear

5mm Round LED

TLH-T1R5-333Z-VY

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Value	Unit
Reverse Voltage	VR	5	V
Continuous Forward Current	IF	30	mA
Pulse Forward Current (Duty 1/10@1KHZ)	IFP	100	mA
Power Dissipation	Pd	110	mW
Electrostatic Discharge	ESD	4000	V
Soldering Temperature (Note.1)	Tsol	260 ±5	°C
Operating Temperature	Topr	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +100	°C
Zener Reverse Current	Iz	100	mA

Note 1:

Soldering time ≤ 5 seconds

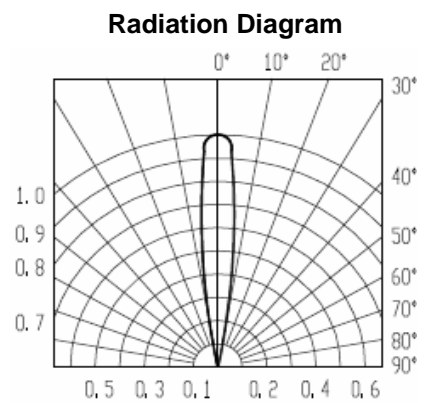
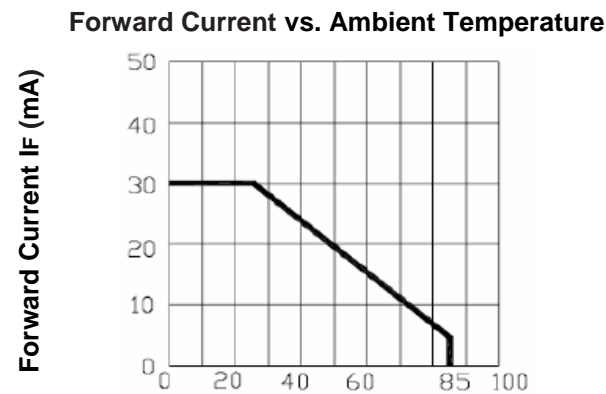
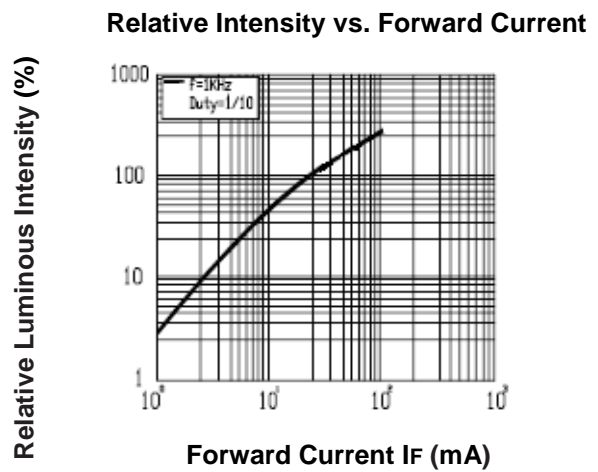
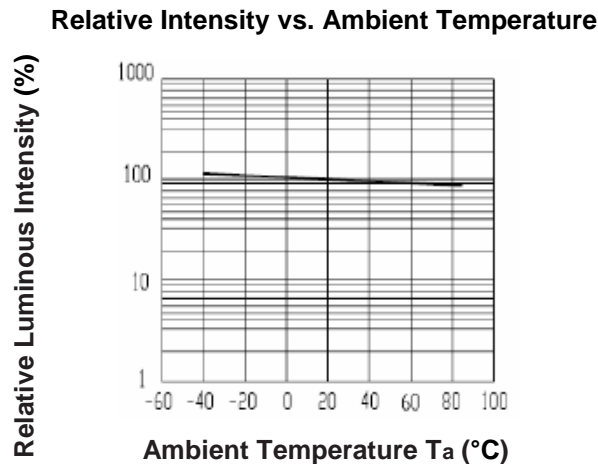
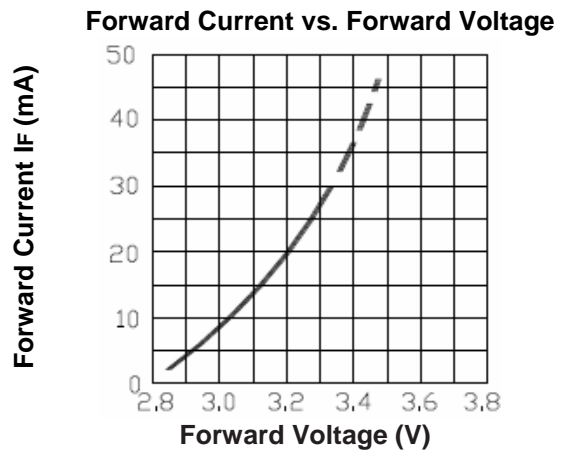
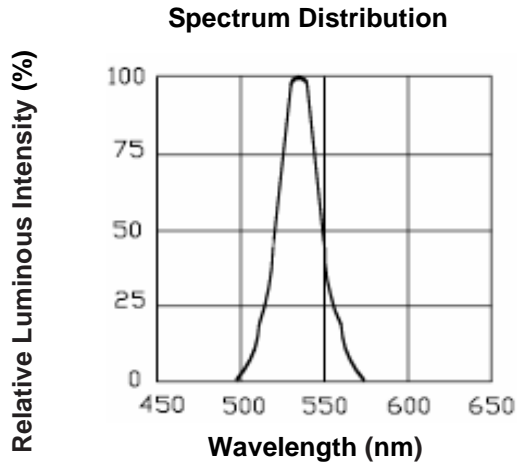
Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	11250	18000	28500	mcd	IF =20mA
Viewing Angle	2θ1/2	-----	15	-----	deg	
Peak wavelength	λp	-----	518	-----	nm	
Dominant wavelength	λd	525	530	535	nm	
Spectrum Radiation Bandwidth	Δλ	-----	35	-----	nm	
Forward Voltage	VF	2.8	3.2	3.6	V	VR=5V
Reverse Current	IR	-----	-----	50	μA	
Zener Reverse Voltage	VZ	5.2	-----	-----	V	Iz=5mA

5mm Round LED

TLH-T1R5-333Z-VY

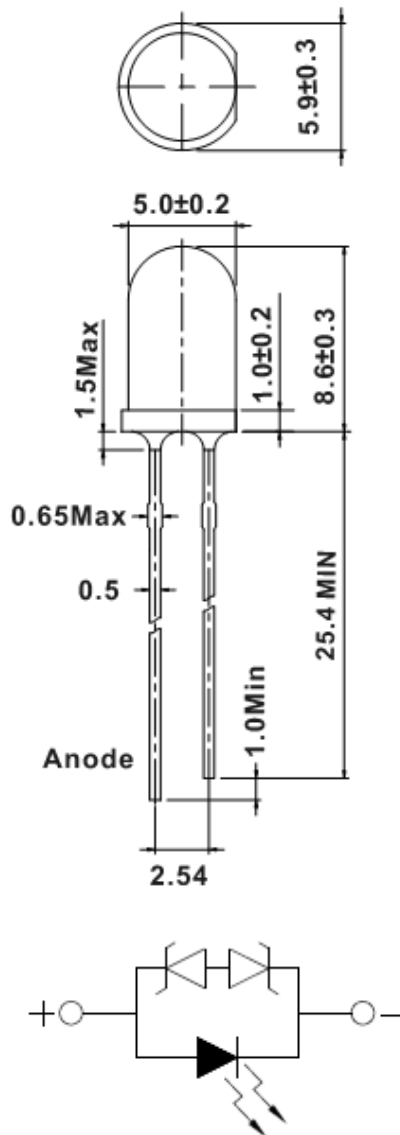
Typical Electro-Optical Characteristics Curves (Ta=25°C)



5mm Round LED

TLH-T1R5-333Z-VY

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

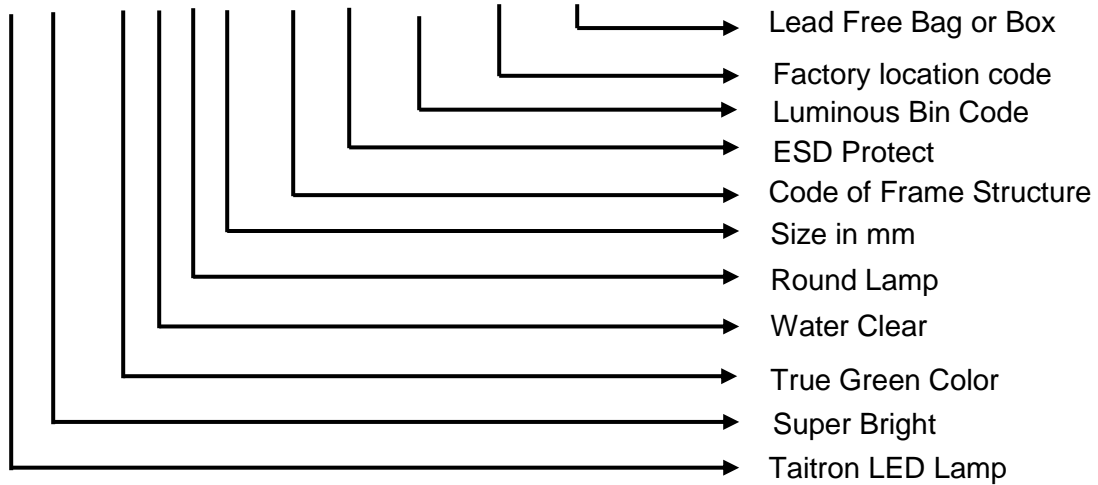
1. 500 PCS/1 Bag, 5 Bags/1 Box
2. 10 Boxes/1 Carton

5mm Round LED

TLH-T1R5-333Z-VY

Ordering Information

TL H - T 1 R 5 - 333Z - VY - 92 - BL



Label Explanation

CAT: Luminous Intensity Rank

HUE: Dom. Wavelength Rank

REF: Forward Voltage Rank



5mm Round LED

TLH-T1R5-333Z-VY

Bin Range Of Dom. Wavelength

Bin Code	Min	Max	Unit	Condition
1	525	530	nm	IF=20mA
2	530	535		

Bin Range Of Luminous Intensity

Bin Code	Min	Max	Unit	Condition
V	11250	14250	mcd	IF=20mA
W	14250	18000		
X	18000	22500		
Y	22500	28500		

Bin Range Of Forward Voltage

Bin Code	Min	Max	Unit	Condition
1	3.0	3.2	V	IF=20mA
2	3.2	3.4		
3	3.4	3.6		
4	3.6	3.8		
5	3.8	4.0		

Notes: Tolerance of Luminous Intensity $\pm 15\%$
Tolerance of Dominant wavelength $\pm 1\text{nm}$
Tolerance of Forward Voltage $\pm 0.1\text{V}$

How to contact us

USA HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800)-TAITRON (800)-824-8766 (661)-257-6060

Fax: (800)-TAITFAX (800)-824-8329 (661)-257-6415

Email: taitron@taitroncomponents.com

Http://www.taitroncomponents.com

TAITRON COMPONENTS INCORPORATED TAIWAN BRANCH

6F., NO.190, SEC. 2, ZHONGXING RD., XINDIAN DIST., NEW TAIPEI CITY 23146, TAIWAN R.O.C.

Tel: 886-2-2913-6238

Fax: 886-2-2913-6239

TAITRON COMPONENT TECHNOLOG SHANGHAI CORPORATION

SUITE 1503, METROBANK PLAZA, 1160 WEST YAN'AN ROAD, SHANGHAI, 200052, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-2302-5027