

Product Specification

<u>Denomination</u>	<u>LED LAMPS</u>
<u>Manufacturer P/N</u>	<u>304UGC-TZ-L</u>
<u>Customer P/N</u>	

Confirmation Column

Ø 3.0mm GREEN LED LAMPS

Release Date:2015/3/2

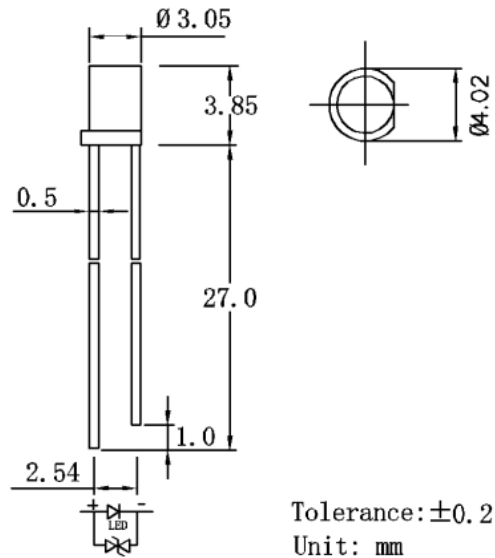
YUAN KE ELECTRONICS COMPANY LTD.

YK 3.0mm GREEN LAMPS

FEATURES

- Standard diameter 3mm package
- Viewing angle:100°
- Package: Water clear
- High radiant power
- Long life and high reliability
- I.C. compatible
- Chip material: GaN
- Built-in Zener Diode-LED

PACKAGE DIMENSIONS



Absolute Maximum Ratings at Ta=25°C

Parameter	Green	Unit
Power Dissipation	100	mW
Peak forward current	150	mA
Continuous forward current	20	mA
Derating lineser from 50°C	0.4	mA/°C
Reverse voltage	5	V
Operating temperature range	-40°C to +80°C	
Storage temperature range	-40°C to +80°C	
Lead soldering temperature	260°C for 5 Seconds	

ELECTRICAL OPTICAL CHARACTERISTICS AT Ta=25°C

PART NO.	EMITTED COLOR	WAVE	FORWARD VOLTAGE			REVERSE CURRENT	LUMINOUS INTENSITY			VIEWING ANGLE
		LENGTH	I _f =20mA(V)			V _r =5v(μ A)	I _f =20mA(mcd)			
		λ _p (nm)	MIN	TYP	MAX	MAX	MIN	TYP	MAX	2θ 1/2(deg)
304UGC-TZ-L	GREEN	520-530	2.8	3.2	3.4	2	1000	1400	2000	100°

YK3.0mm GREEN LAMPS

1) Results of reliability test

Test Classification	Test Item	Test Conditions	Test Duration	Sample Size	AC/RE
Life Test	Life Test	Ta=25°C±5°C IF=20mA	1,000 hrs	30 pcs	0/1
Environment	Thermal Shock Test	-10°C±5°C ←→ +100°C±5°C 5min 10sec. 5min	50 cycles	30 pcs	0/1
	Temperature cycle Test	-55°C±5°C ←→ +85°C±5°C 30min 5min 30min	50 cycles	30 pcs	0/1
	High Temp. & High Humidity Test	Ta=85°C±5°C RH=85%±0.5%RH	1,000 hrs	30 pcs	0/1
	High Temp. Storage	Ta=100°C±5°C	1,000 hrs	30 pcs	0/1
	Low Temp. Storage	Ta= -55°C±5°C	1,000 hrs	30 pcs	0/1
Mechanical	Resistance to soldering Heat	Ta=260°C±5°C	5 Sec.	30 pcs	0/1
	Lead Integrity	0.5KG 0°C ~ 90°C ~ 0°C	2 Items	30 pcs	0/1

2)CRITERIA FOR JUDGING THE DAMAGE

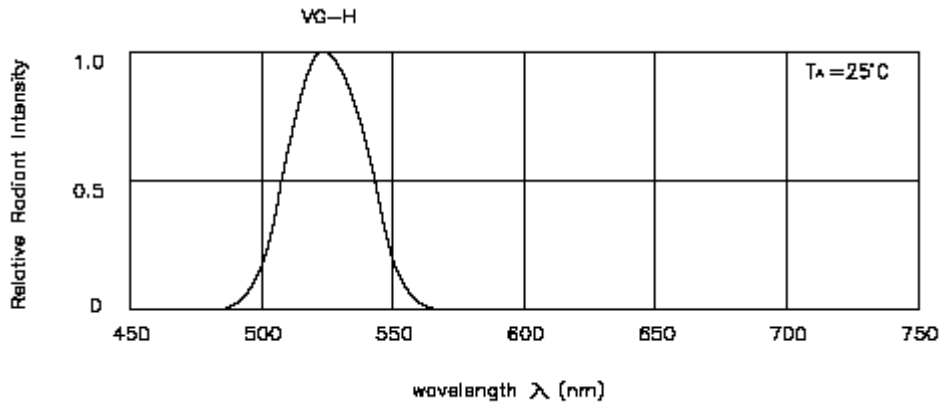
Item	Symbol	Test Conditions	Criteria for Judgement	
			Min	Max
Forward Voltage	VF	IF=20mA	/	U.S.L*)*1.1
Reverse Current	IR	VR=5V	/	U.S.L*)*2.0
Luminous Intensity	IV	IF=20mA	L.S.L**)*0.7	/

*)U.S.L.:Upper Standard Level

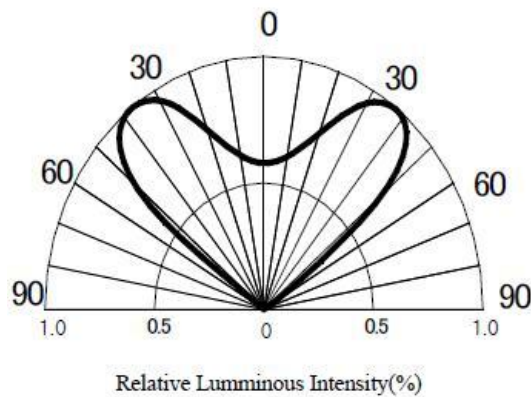
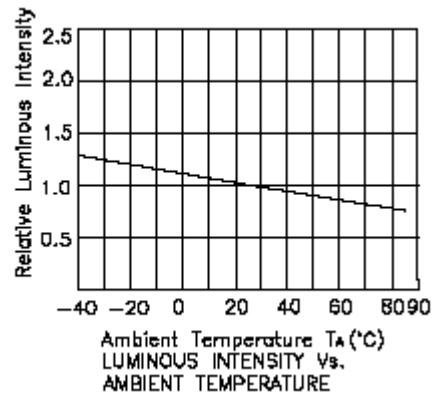
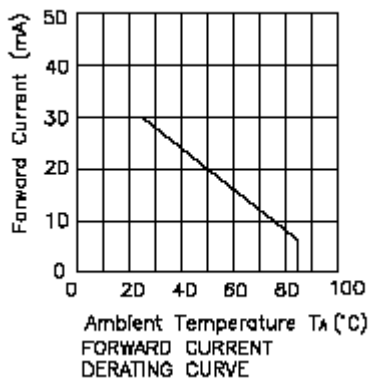
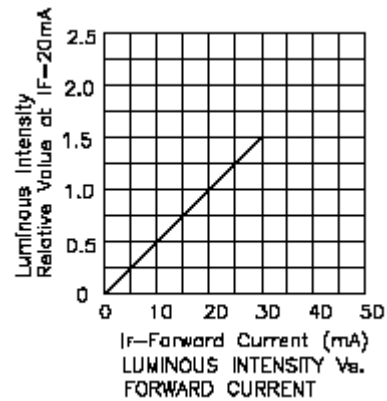
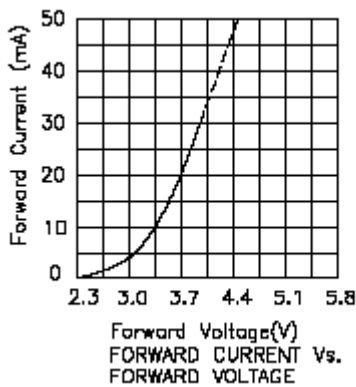
**) L.S.L :Lower Standard Level

YK3.0mm GREEN LAMPS

RELATIVE ELECTRICITY PARMAMETE



RELATIVE INTENSITY Vs. WAVELENGTH



YK3.0mm GREEN LAMPS (304UGC-TZ-L)

Bin-selection List

Intensity Bin Limits (IF=20mA)

BIN CODE	Min (mcd)	Max (mcd)
1	1000	1200
2	1200	1400
3	1400	1600
4	1600	1800
5	1800	2000

Wave Length Bin Limits (IF=20mA)

BIN CODE	Min (nm)	Max (nm)
1	520	525
2	525	530

Vf Bin Limits (IF=20mA)

BIN CODE	Min (V)	Max (V)
1	2.8	3.0
2	3.0	3.2
3	3.2	3.4

Reported By:

Checked By:

Approved By:

YK3.0mm GREEN LAMPS

1. Standard Test Condition: All mentioned parameters if no special provision conform as follow

Temperature: 25~30°C

Humidity: ≤60%RH

2. Storage & Usage Environment

2.1 Averting from being eroded by sulfureted hydrogen and preventing static electricity during usage or storage.

2.2 Averting from point-blank daylight during during usage or storage.

2.3 Emitting surface don't touch the chemical, like flux...etc.

2.4 Care must be taken not to be pressed by heavy during product storage.

2.5 Don't force the leads entad or forth during soldering.

3. Modification Items

The content of this specification can be modified according to agreement.

4. Packing

1000pcs per bag

10bags per box

6boxes per carton