



SPECIFICATION FOR LED LAMP

PART NO. : LT63B3-41-URF1

2.9mm ROUND TYPE

Approved by: *Fang Po Wang* Prepared by: *Tammy*

LEDTECH ELECTRONICS CORPORATION

*5TH FL,NO.542-5,CHUNG CHENG ROAD,
HSIN-TIEN CITY,TAIWAN.*

TEL : 886-2-22186891

FAX : 886-2-22181222,22182894



2.9mm ROUND TYPE

PART NO. : LT63B3-41-URF1

Page : 1/4

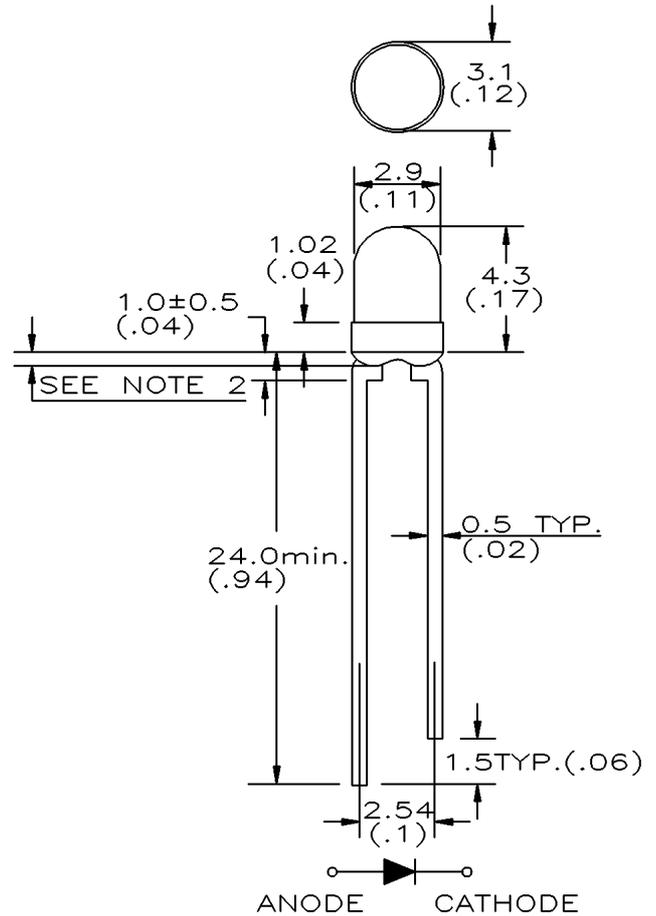
Features

- * High intensity
- * Reliable and rugged
- * Low current requirement
- * IC compatible

Description

The blue lamps are made with InGaN chips and water clear epoxy resin.

Package Dimensions



Notes :

1. All dimensions are in millimeters (inches).
2. Protruded resin under flange is 1.0mm (.04") max.
3. Tolerance is ± 0.25 mm (0.01") unless otherwise noted.

Part No.	Led Chip		Lens Color
	Material	Emitting Color	
LT63B3-41-URF1	InGaN	Blue	Water Clear



2.9mm ROUND TYPE

PART NO. : LT63B3-41-URF1

Page : 2/4

Absolute Maximum Ratings at Ta=25°C :

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	80	mW
Reverse Voltage	Vr	5	V
D.C. Forward Current	If	20	mA
Peak Current (1/10 Duty Cycle,0.1ms pulse width)	If (Peak)	100	mA
Operating Temperature Range	Topr	-25 to +85	°C
Storage Temperature Range	Tstg	-40 to +100	°C
Lead Soldering Temp. (1.6mm from body) for 5 seconds		260	°C
Electric Static Discharge Threshold (HBM)		300	V

Electrical and Optical Characteristics :

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	Iv	If=20mA	400	700		mcd
Forward Voltage	Vf	If=20mA		3.6	4.0	V
Dominant Wavelength	λd	If=20mA		470		nm
Reverse Current	Ir	Vr=5V			50	μA
Viewing Angle	$2\theta 1/2$	If=20mA		45		deg

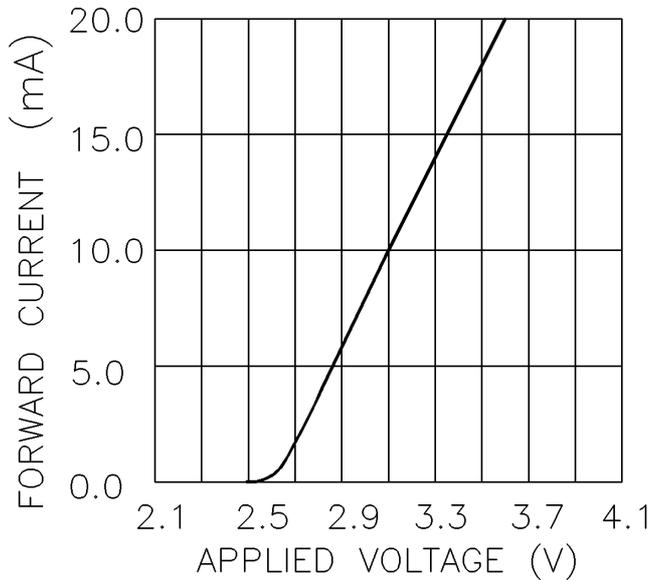


2.9mm ROUND TYPE

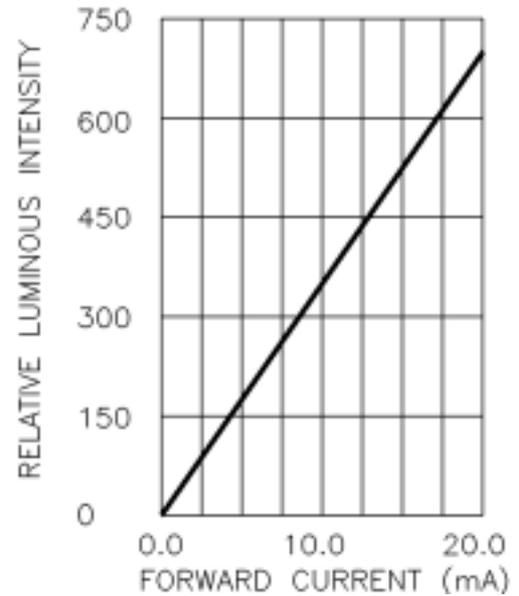
PART NO. : LT63B3-41-URF1

Page : 3/4

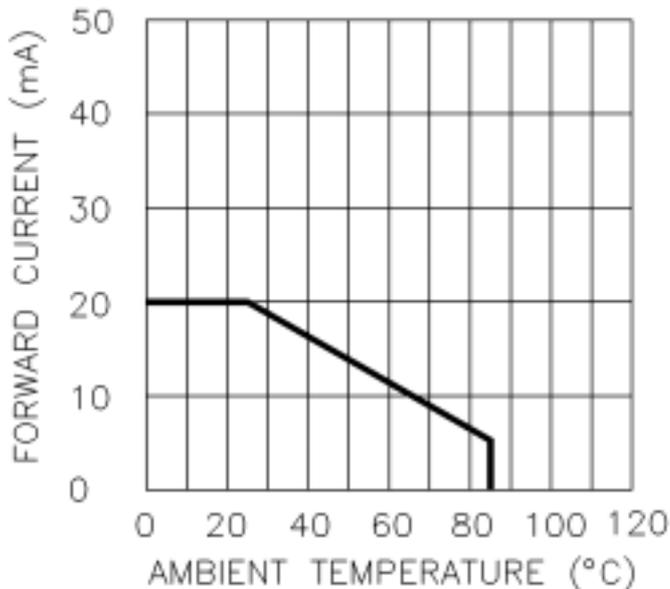
Typical Electrical / Optical Characteristics Curves :



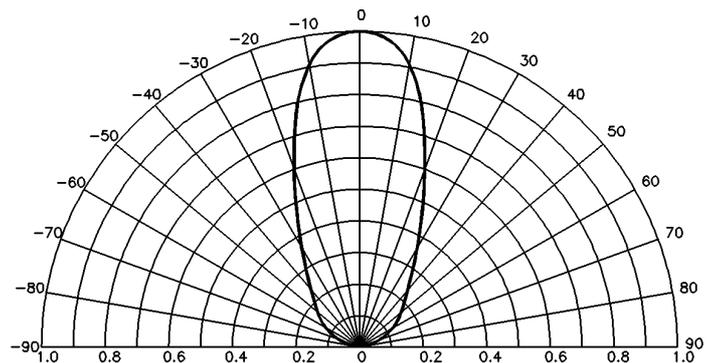
Forward Current vs. Forward Voltage



**Forward Current vs.
Relative Luminous Intensity**



Ambient Temperature vs. Forward Current



Radiation Diagram



2.9mm ROUND TYPE

PART NO. : LT63B3-41-URF1

Page : 4/4

Reliability Test Method :

Test Item	Test Condition	Duration Time
Operation Life	If=20mA / Ta=25°C	168 hrs
Storage at High Temperature	Ta=100°C	168 hrs
Storage at Low Temperature	Ta=-40°C	168 hrs
Storage at High Temperature/High Humidity	Ta=85°C / RH=85%	168 hrs
Operating at High Temperature	Ta=85°C / If=20mA	168 hrs
Operating at Low Temperature	Ta=-25°C / If=20mA	168 hrs
Thermal Shock	Ta/T=100°C/30min~ - 40°C/30min	10 cycles
Solderability	Tsol=260°C	5 sec

Criteria for Judging The Damage :

Item	Symbol	Test Condition	Criteria for Judgment	
			Min.	Max.
Forward Voltage	Vf	If=20mA	---	Initial Data x1.1
Reverse Current	Ir	Vr=5V	---	50 μ A
Luminous Intensity	Iv	If=20mA	Initial Data x0.8	---