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SPECIFICATION

PART NO. : LY1153-G1HE NGCW
20.0MM ROUND LED LAMP

Approved by

Checked by

Prepared by

San

Yang

Hong



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Features

- * 20.0MM ROUND LED LAMP**
- * LOW CURRENT REQUIREMENTS.**
- * HIGH LIGHT OUTPUT**
- * RELIABLE AND RUGGED**
- * I.C. COMPATIBLE.**

Description

The LY1153-G1HE is a 20.0mm round LED lamp
The green LED chips are made from GaP on a transparent GaP substrate.
The device has a water face and green segments.

Part No.	LED Chip		Description
	Material	Emitting Color	
LY1153-G1HE NGCW	GaP/GaP	Green	Green Diffused

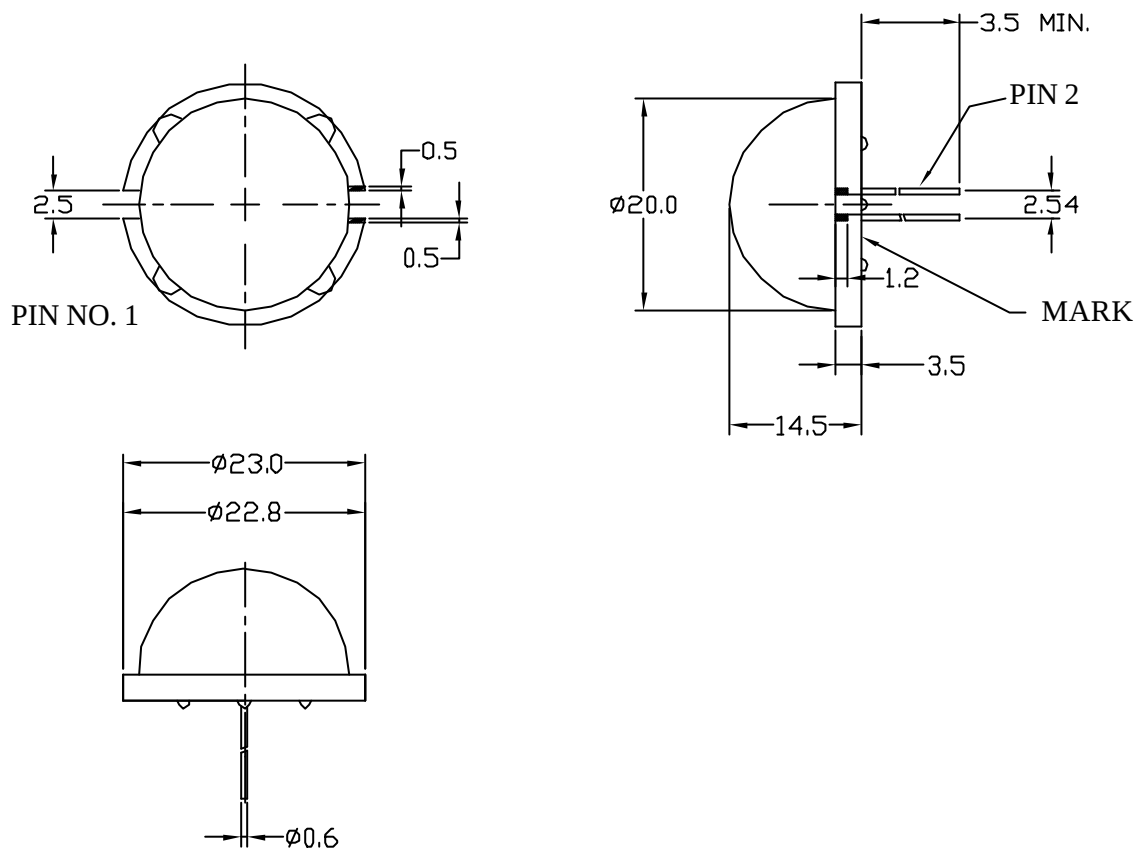


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Package Dimensions

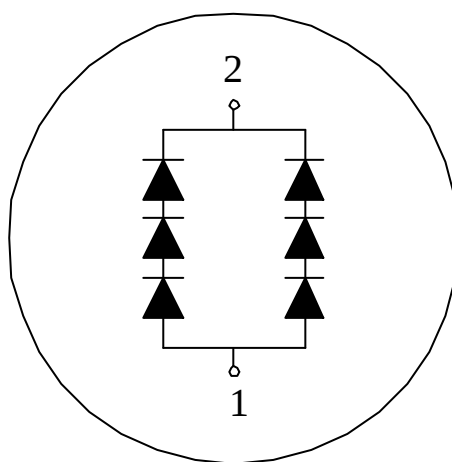


1.ALL DIMENSIONS ARE IN mm , TOLERANCE IS $\pm 0.25\text{mm}$ UNLESS OTHERWISE NOTED.

2.THE SLOPE ANGLE OF ANY PIN MAY BE $\pm 5.0^\circ$ MAX.

Internal Circuit Diagram

LY1153-G1HE





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Pin Function

LY1153-G1HE NGCW	
Pin No.	Function
1	ANODE
2	CATHODE



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Absolute Maximum Ratings at Ta=25

Parameter	Symbol	Rating	Unit
Reverse Voltage Per LED Chip	Vr	5	V
D.C. Forward Current Per LED Chip	If	30	mA
Pulse Current Per LED Chip (1/10 Duty Cycle , 0.1 ms Pulse Width)	If(Peak)	100	mA
Operating Temperature Range	Topr	-25 to +85	
Storage Temperature Range	Tstg	-40 to +100	
Lead Soldering Temp.(1.6mm from seating plane) for 3 seconds		260	

Electrical and Optical Characteristics :

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	Iv	If=10mA	8.2	13.8		mcd
Forward Voltage Per Segment	Vf	If=40mA		6.3	7.8	V
Peak Wavelength	λ P	If=20mA		567		nm
	λ D			572		
Reverse Current Per Segment	Ir	Vr=5V			100	μ A
Spectrum Line Halfwidth	λ	If=20mA		30		nm

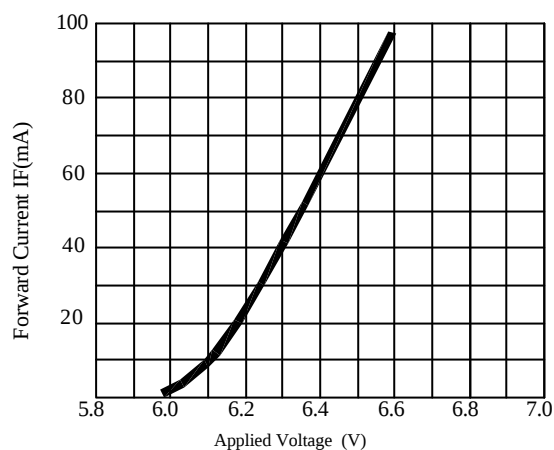


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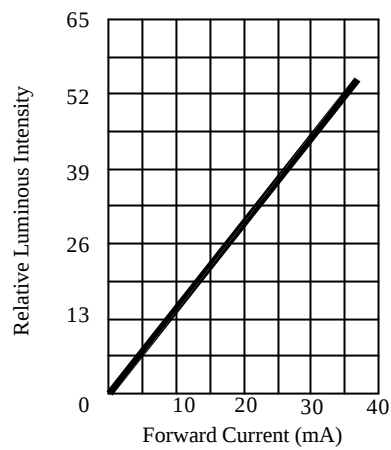
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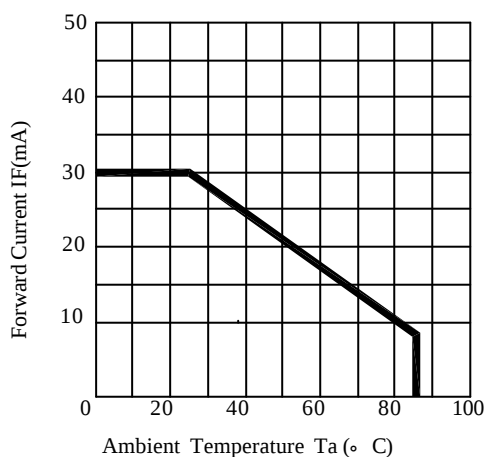
Typical Electrical/Optical Characteristic Curves (25 °C Ambient Temperature Unless Otherwise Noted)



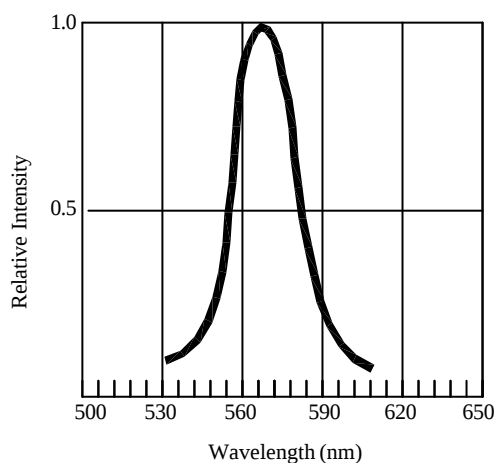
FORWARD CURRENT VS. APPLIED VOLTAGE



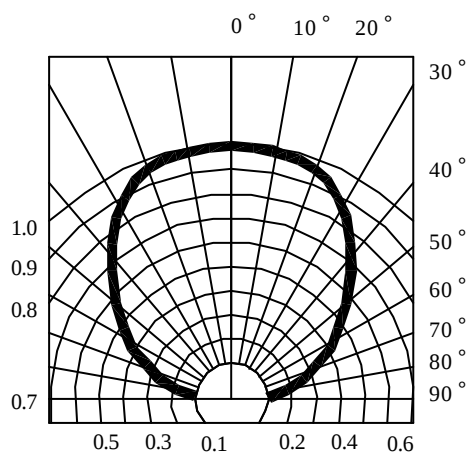
LUMINOUS INTENSITY VS.
FORWARD CURRENT



FORWARD CURRENT VS. AMBIENT TEMPERATURE



RELATIVE INTENSITY VS. WAVELENGTH



RADIATION DIAGRAM