# Kingbright



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

### OVAL SOLID STATE LAMP

GREEN

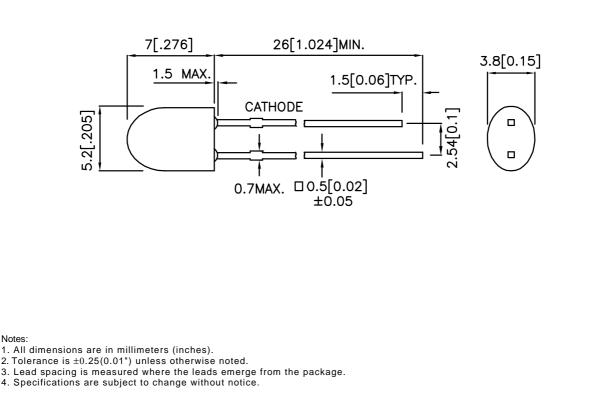
#### Features

OUTSTNDING MATERIAL EFFICIENCY.RELIABLE AND RUGGED.I.C. COMPATIBLE/LOW CURRENT CAPABILITY.RoHS COMPLIANT.

#### Description

The Green source color devices are made with InGaN on SiC Light Emitting Diode. Static electricity and surge damage the LEDS. It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs. All devices, equipment and machinery must be electrically grounded.

#### Package Dimensions



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Selection Guide								
Part No.	Dice	Lens Type	lv (mcd) @ 20 mA		Viewing Angle			
			Min.	Тур.	2 <del>0</del> 1/2			
L-5603VGDL/SD-H	GREEN (InGaN)	GREEN SEMI DIFFUSED	650	2100	100°(H) 50°(V)			

Note:

1.  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

#### Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green	520		nm	I⊧=20mA
λD	Dominant Wavelength	Green	525		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Green	35		nm	IF=20mA
С	Capacitance	Green	45		pF	VF=0V;f=1MHz
Vf	Forward Voltage	Green	3.7	4.1	V	IF=20mA
IR	Reverse Current	Green		10	uA	Vr = 5V

#### Absolute Maximum Ratings at TA=25°C

Parameter	Green	Units		
Power dissipation	120	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	150	mA		
Reverse Voltage	5	V		
Operating/Storage Temperature	-40°C To +85°C			
Lead Solder Temperature [2]	260°C For 3 Seconds			
Lead Solder Temperature [3]	260°C For 5 Seconds	260°C For 5 Seconds		

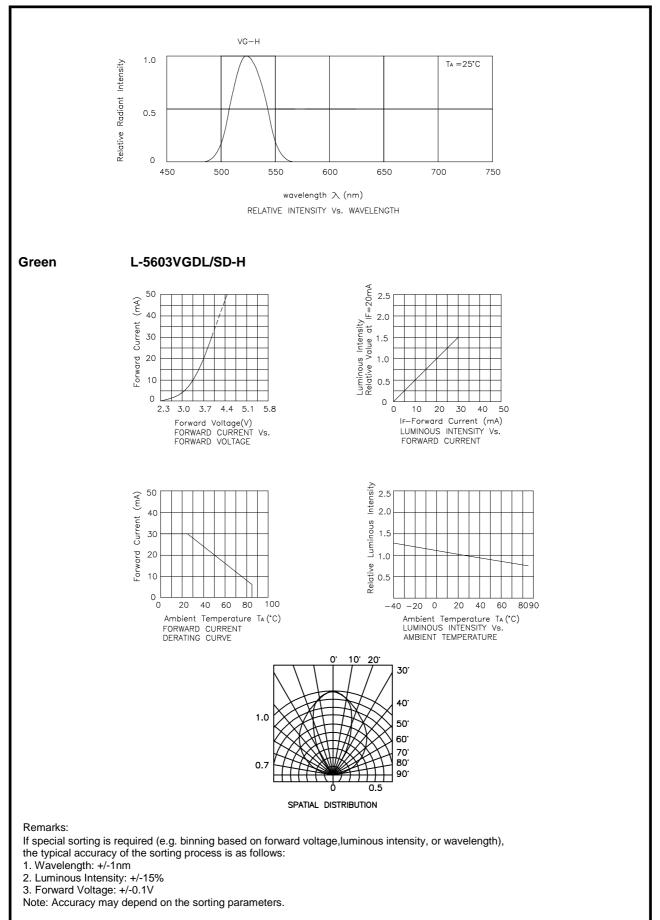
Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.
3. 5mm below package base.

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