

# L806TG4

## Super Green

20mm, Big Dome 6-Chip LEDs, 13.5mm Height  
120° viewing angle

DWG BY:  
KB / GP  
11-28-11

CHK BY:  
PL  
11-28-11

REVISION LTR: -  
  
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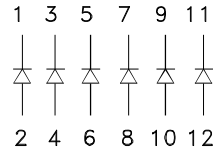
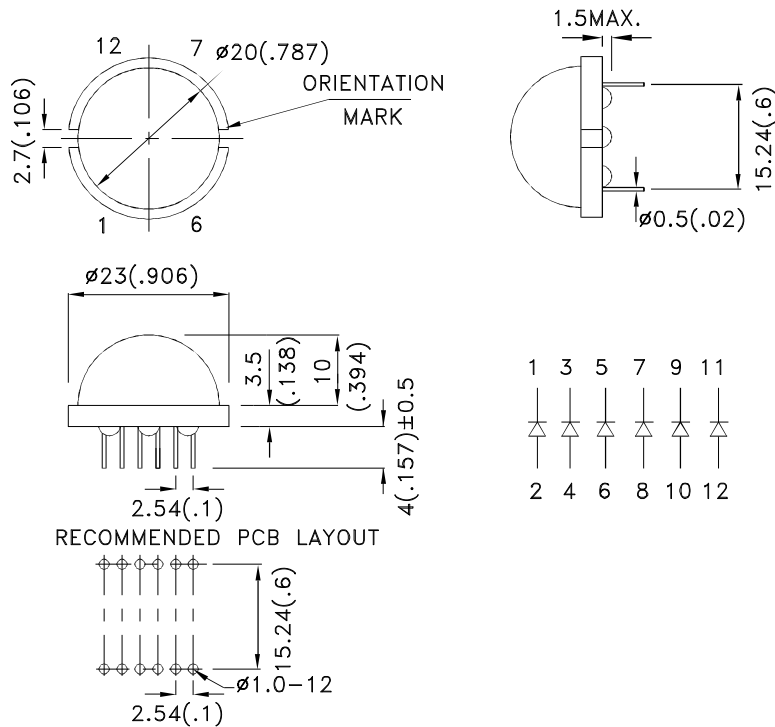
**Features**

- 12 pins.
- High luminous intensity.
- Low power consumption.
- Wide viewing angle.
- Categorized for luminous intensity.
- Excellent on / off contrast.
- Easy mounting on P.C. board or sockets.
- Solid state reliability.
- RoHS compliant.

**Description**

The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

**Package Dimensions**



**Notes:**

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25(0.01)$  unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
		Min.	Typ.	θ1/2
Super Bright Green (GaP)	GREEN DIFFUSED	70	200	120°

**Notes:**

- θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
- Luminous intensity/ luminous Flux: +/-15%.

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

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ <sub>peak</sub>	Peak Wavelength	Super Bright Green	562		nm	I <sub>F</sub> =20mA
λ <sub>D</sub> [1]	Dominant Wavelength	Super Bright Green	567		nm	I <sub>F</sub> =20mA
Δλ1/2	Spectral Line Half-width	Super Bright Green	28		nm	I <sub>F</sub> =20mA
C	Capacitance	Super Bright Green	15		pF	V <sub>F</sub> =0V;f=1MHz
V <sub>F</sub> [2]	Forward Voltage	Super Bright Green	2.2	2.5	V	I <sub>F</sub> =20mA
I <sub>R</sub>	Reverse Current	Super Bright Green		10	uA	V <sub>R</sub> = 5V
X	Chromaticity Coordinates	Super Bright Green	0.42			I <sub>F</sub> =20mA
Y			0.57			

**Notes:**

- Wavelength: +/-1nm.
- Forward Voltage: +/-0.1V.

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

Parameter	Super Bright Green	Units
Power dissipation	62.5	mW
DC Forward Current	25	mA
Peak Forward Current [1]	140	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40 °C To +85 °C	
Lead Solder Temperature [2]	260 °C For 3-5 Seconds	

**Notes:**

- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2mm below package base.

