

L806TR4

Hi-Eff Red

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

DWG BY:
KB / GP
04-08-11

CHK BY:
PL
04-13-11

REVISION LTR: -

04-08-11

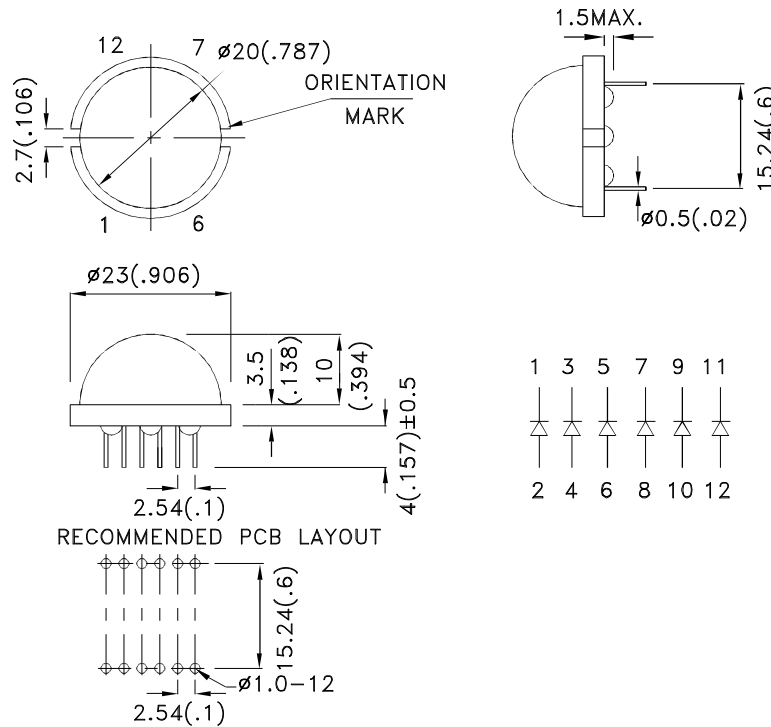
Features

- 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 High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange 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] @ 10mA		Viewing Angle [1]
		Min.	Typ.	2θ1/2
High Eff. Red (GaAsP/GaP)	RED DIFFUSED	-	37	120°

Notes:

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

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	High Eff. Red	630		nm	I _F =20mA
λ _D [1]	Dominant Wavelength	High Eff. Red	620		nm	I _F =20mA
Δλ _{1/2}	Spectral Line Half-width	High Eff. Red	42		nm	I _F =20mA
C	Capacitance	High Eff. Red	15		pF	V _F =0V;f=1MHz
V _F [2]	Forward Voltage	High Eff. Red	2	2.5	V	I _F =20mA
I _R	Reverse Current	High Eff. Red		10	uA	V _R = 5V
	Radiant Intensity	High Eff. Red	230		uW/sr	I _F =20mA
X	Chromaticity Coordinates	High Eff. Red	0.69			I _F =20mA
Y			0.30			

Notes:

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

Absolute Maximum Ratings at TA=25°C

Parameter	Ultra Red	Units
Power dissipation	75	mW
DC Forward Current	30	mA
Peak Forward Current [1]	160	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 3 Seconds	

Notes:

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

