

# RL310Y4

Yellow

7 x2.3mm, Rectangle Body, 8mm Height  
130° viewing angle

DWG BY:  
KB / GP  
01-04-07

CHK BY:  
PL  
01-02-08

QA:  
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\_\_-\_\_-\_\_

MFG:  
\_\_\_\_\_  
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REVISION LTR: -  
  
12-17-07

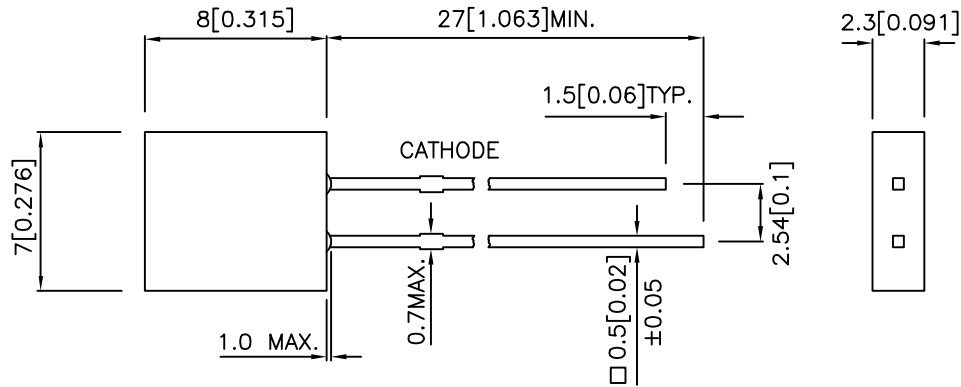
**Features**

- LOW POWER CONSUMPTION.
- RELIABLE AND RUGGED.
- EXCELLENT UNIFORMITY OF LIGHT OUTPUT.
- SUITABLE FOR LEVEL INDICATOR.
- I.C. COMPATIBLE.
- LONG LIFE - SOLID STATE RELIABILITY.
- ROHS COMPLIANT.

**Description**

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow 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 lead emerge package.
4. Specifications are subject to change without notice.

### Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 10mA		Viewing Angle
			Min.	Typ.	2θ1/2
RL310Y4	YELLOW (GaAsP/GaP)	YELLOW DIFFUSED		8	130°

Note:

1. θ1/2 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	Min.	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Yellow	582	587	592	nm	IF=20mA
λD	Dominate Wavelength	Yellow	585	588	592	nm	IF=20mA
Δλ 1/2	Spectral Line Half-width	Yellow		36		nm	IF=20mA
C	Capacitance	Yellow		20		pF	VF=0V;f=1MHz
VF	Forward Voltage	Yellow		2.1	2.5	V	IF=20mA
IR	Reverse Current	Yellow			10	uA	VR = 5V
X	Chromaticity Coordinates	Yellow		0.55			IF=20mA
Y				0.44			

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

Parameter	Yellow	Units
Power dissipation	105	mW
DC Forward Current	30	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 Seconds	
Lead Solder Temperature [3]	260°C For 5 Seconds	

Notes:

- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2mm below package base.
- 5mm below package base.

