

# PDL070TWYG4B

Yellow/Hi-Eff Green

1.8mm, Flanged Cylindrical, 3mm Height  
85° viewing angle

DWG BY:  
BL / GP  
01-18-07

CHK BY:  
PL  
07-05-07

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

MFG:  
\_\_\_\_\_  
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REVISION LTR: -

07-05-07

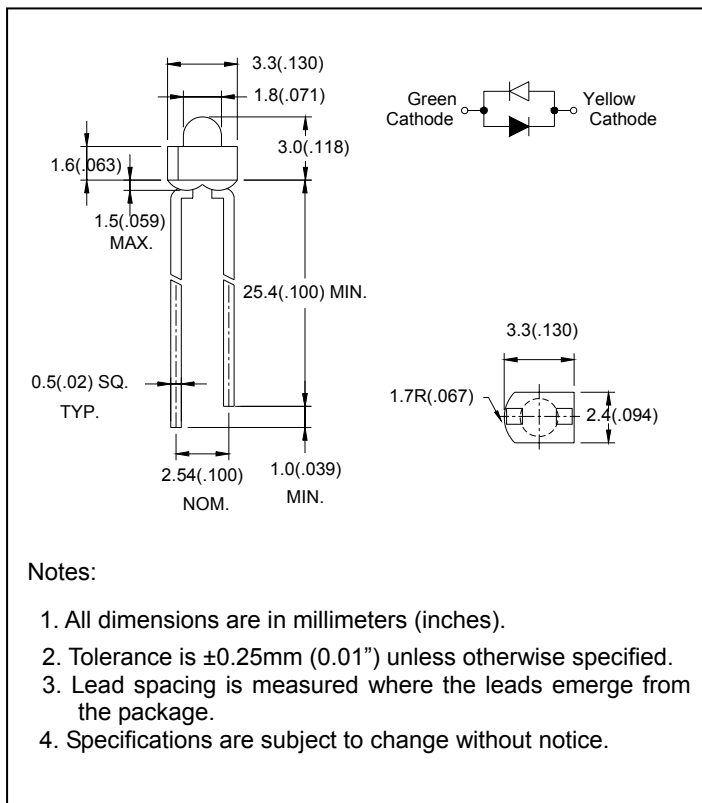
● **Features:**

1. Chip material: GaAsP/GaP(Yellow)  
 and GaP/GaP(Green)
2. Emitted color : Yellow and Green
3. Lens Appearance : White Diffused
4. General purpose leads.
5. Low power consumption.
6. Compatible/ low current requirements
7. Reliable and rugged.
8. This product is RoHS compliant.

● **Applications:**

1. TV set
2. Monitor
3. Telephone
4. Computer
5. Circuit board

● **Package dimensions:**



● **Absolute Maximum Ratings(Ta=25°C)**

Parameter	Symbol	Yellow	Green	Unit
Power Dissipation	Pd	100	100	mW
Forward Current	I <sub>F</sub>	30	30	mA
Peak Forward Current* <sup>1</sup>	I <sub>FP</sub>	150	150	mA
Reverse Voltage	V <sub>R</sub>	5		V
Operating Temperature	Topr	-40°C~80°C		
Storage Temperature	Tstg	-40°C~85°C		
Soldering Temperature	Tsol	260°C (for 5 seconds)		

\*<sup>1</sup>Condition for I<sub>FP</sub> is pulse of 1/10 duty and 0.1msec width.

● **Electrical and optical characteristics(Ta=25°C)**

Parameter	Symbol	Condition	Color	Min.	Typ.	Max.	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =20mA	Yellow Hi-Eff Green	-	2.1 2.2	2.6 2.6	V
Luminous Intensity	I <sub>v</sub>	I <sub>F</sub> =20mA	Yellow Hi-Eff Green	-	23 30	-	mcd
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	Yellow Hi-Eff Green	-	-	100	μA
Peak Wave Length	λ <sub>p</sub>	I <sub>F</sub> =20mA	Yellow Hi-Eff Green	582 560	585 567	592 570	nm
Dominant Wave Length	λ <sub>d</sub>	I <sub>F</sub> =20mA	Yellow Hi-Eff Green	585 565	587 572	592 574	nm
Spectral Line Half-width	Δλ	I <sub>F</sub> =20mA	Yellow Hi-Eff Green	-	36 30	-	nm
Viewing Angle	2θ <sub>1/2</sub>	I <sub>F</sub> =20mA	Yellow Hi-Eff Green	-	85	-	deg
Chromaticity Coordinates	X	I <sub>F</sub> =20mA	Yellow	-	0.55	-	
	Y				0.44		
Chromaticity Coordinates	X	I <sub>F</sub> =20mA	Hi-Eff Green	-	0.45	-	
	Y				0.54		

● **Typical Electro-Optical Characteristics Curves**

