

PRODUCT SPECIFICATION

Part Number PLC761A-WCY04

Details

Features

- Piranha LED
- 7.62 x 7.62 x 9.4mm
- Emitting Color Yellow
- AlInGaP Dice Used

Mechanical Dimensions

- 3mm Lens
- High Luminous Output
- High Current Operation
- RoHS Compliant





1. Dimensions in millimeters [inch], and tolerance is ± 0.25 [.010] unless otherwise noted.

2. Specifications subject to change without notice



Device Selection Guide

Model Number	Chip		
Niodel Nulliber	Material	Emitting Color	
PLC761-WCY04	AlInGaP	Yellow	

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit
		Y	
Power Dissipation	Pad	300	mW
Continuous Forward Current	IAF	100	mA
Peak Current (duty cycle 1/10, 1KHz)	IPF	120	mA
Reverse Voltage	VR	5	V
Operating Temperature	Topr	-40~+80	°C
Storage Temperature	Tstg	-40~+100	°C
Soldering Conditions	Max. 260°C for 5 sec Max.(3mm from the epoxy body)		

Electrical and Optical Characteristics at Ta=25 °C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Forward Voltage	VF		2.5	3.0	V	
Luminous Flux	Iv	5000	7000		mlm	IE-70 A
Dominant Wavelength	λD		590		nm	IF=/0mA
Viewing Angle	201/2		15		deg	
Reverse Current	IR			10	μΑ	VR=5V



Luminous Flux Rank Limits (IF = 30mA)

Code	Unit: mlm		
Coue	Min.	Max.	
Ν	5000	6000	
Κ	6000	7000	
L	7000	8000	
М	8000	10000	

Dominant Wavelength Rank Limits (IF = 30mA)

Code	Unit: nm		
Coue	Min.	Max.	
Y6	586.5	588	
Y7	588	590	
Y8	590	592	
Y9	592	594	

Forward Voltage Rank Limits (IF = 30mA)

Code	Unit: V		
Coue	Min.	Max.	
D	2.0	2.2	
Е	2.2	2.4	
F	2.4	2.6	
G	2.6	2.8	
Н	2.8	3.0	

Notes:

- 1. Tolerance of measurement of luminous Flux: $\pm 15\%$
- 2. Tolerance of measurement of Dominant wavelength: ±2nm
- 3. Tolerance of measurement of forward voltage: $\pm 0.05v$
- 4. All data measured by P-tec's test equipment
- 5. One delivery will include several color rank, VF and Iv ranks of the products.
- 6. The quantity-ratio of the ranks is decided by P-tec
- 7. Please confirm with P-tec salesman, if your request differs from standard specifications.



Typical Electrical/Optical Characteristic Curves

• Ta=25°C Unless Otherwise Noted





Precautions for Use

- 1. Recommended soldering conditions
 - 1.1. Wave soldering





1.2. Recommended Soldering:

Power dissipation of iron should be smaller than 15W and temperature should be controllable. Soldering temperature should be under 230, time 3sec.

- 2. Static Electricity
 - 2.1 Static electricity or surge voltage damages LEDs.It is recommended that a wrist band or an anti-electrostatic glove be used when handling the LEDs.
 - 2.2 All devices, equipment and machinery must be properly grounded. It is recommended that measures be taken against surge voltage to the equipment that mounts the LEDs.



	Approved By	Checked By	Prepared By
Customer Approval Signatures			

Record Of Revisions				
Rev.	Comments	Page	Date	
0	Released Spec		10/15/14	