

PRODUCT SPECIFICATION

Part Number PLC764-WCB04

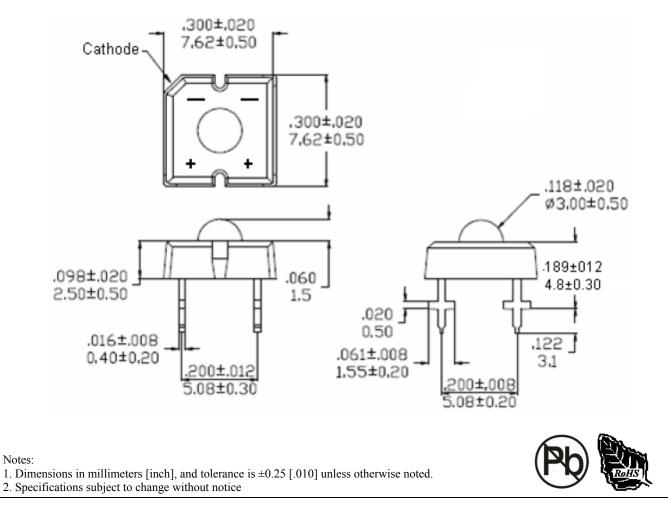
Details

Features

- Piranha LED
- 7.62 x 7.62 x 9.4mm
- Emitting Color Blue
- InGaN Dice Used

Mechanical Dimensions

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





Device Selection Guide

Model Number		Chip
	Material	Emitting Color
PLC764-WCB04	InGaN	Blue

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit
		В	
Power Dissipation	Pad	160	mW
Continuous Forward Current	IAF	40	mA
Peak Current (duty cycle 1/10, 1KHz)	IPF	100	mA
Reverse Voltage	VR	5	V
Operating Temperature	Topr	-30~+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 $Ta=25^{\circ}C$

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage	VF		3.5	4.0	V	
Luminous Flux	Iv	1500	2500		mlm	IT-20 A
Dominant Wavelength	λD		465		nm	IF=30mA
Viewing Angle	201/2		50		deg	
Reverse Current	IR			50	μΑ	VR=5V



Luminous Flux Rank Limits (IF = 30mA)

Code	Unit: mlm		
Coue	Min.	Max.	
С	1500	2000	
D	2000	2500	
Е	2500	3000	
F	3000	3500	

Dominant Wavelength Rank Limits (IF = 30mA)

Code	Unit	: nm
Coue	Min.	Max.
С	460	465
D	465	470
Е	470	475

Forward Voltage Rank Limits (IF = 30mA)

Code	Uni	t: V
Coue	Min.	Max.
Н	2.8	3.0
J	3.0	3.2
K	3.2	3.4
L	3.4	3.6
М	3.6	3.8
Ν	3.8	4.0

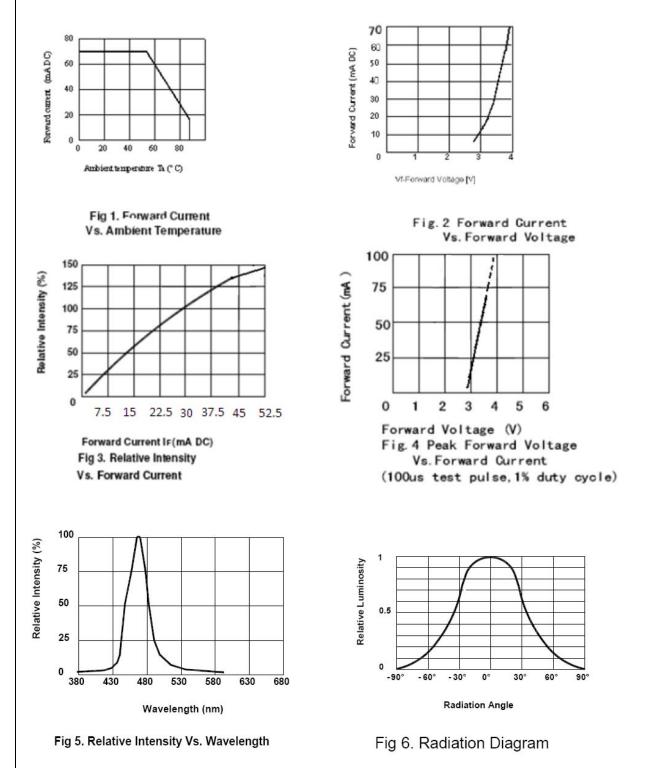
Notes:

- 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

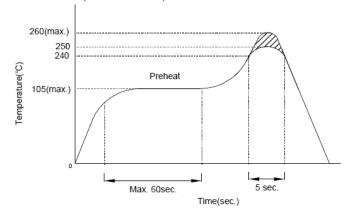




Precautions for Use

- 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		10/08/14