



PRODUCT SPECIFICATION

Part Number
PLC762-WCG04

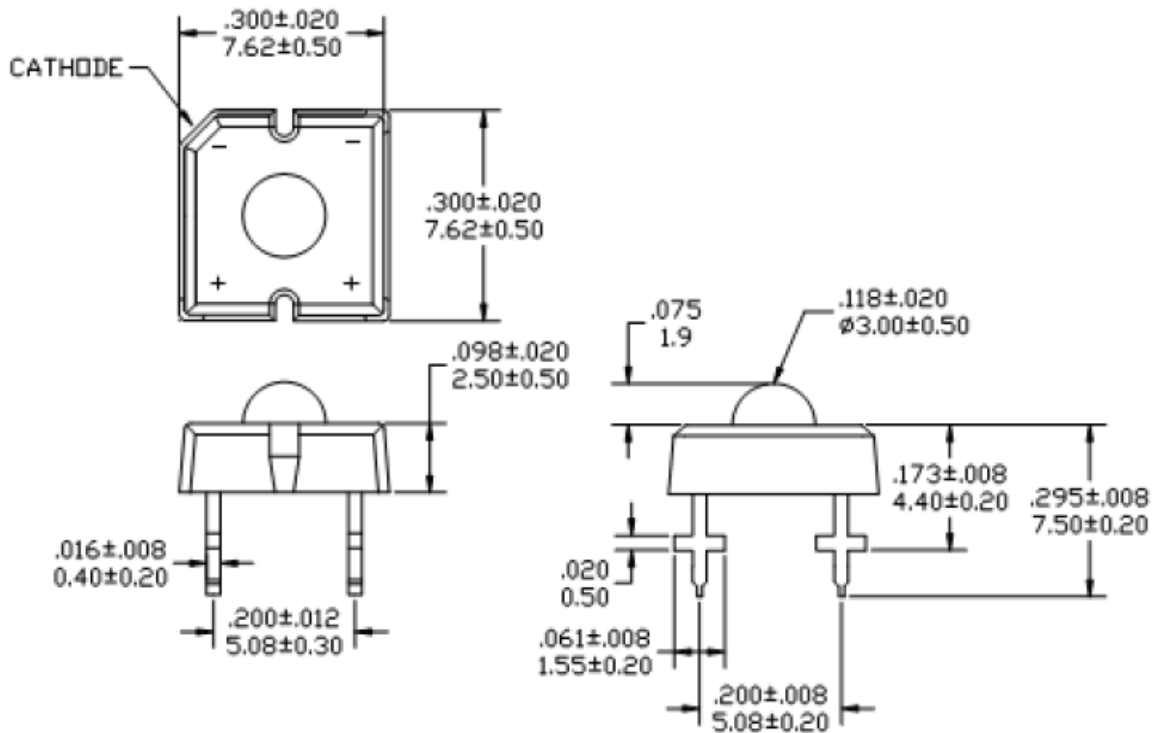
Details

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

Features

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

Mechanical Dimensions



Notes:

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	
	Material	Emitting Color
PLC762-WCG04	InGaN	Green

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit
		G	
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°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage	VF	--	3.5	4.0	V	IF=30mA
Luminous Flux	Iv	4000	6500	--	mlm	
Dominant Wavelength	λD	--	525	--	nm	
Viewing Angle	2θ1/2	--	70	--	deg	
Reverse Current	IR	--	--	50	μA	VR=5V

Luminous Flux Rank Limits (IF = 30mA)

Code	Unit: mlm	
	Min.	Max.
H	4000	5000
J	5000	6000
K	6000	7000
L	7000	8000

Color Rank Limits (IF = 30mA)

Code	Unit: mlm	
	Min.	Max.
TG1	515	520
TG2	520	525
TG3	525	530

Forward Voltage Rank Limits (IF = 30mA)

Code	Unit: V	
	Min.	Max.
J	3.0	3.2
K	3.2	3.4
L	3.4	3.6
M	3.6	3.8
N	3.8	4.0

Notes:

1. Tolerance of measurement of luminous Flux: $\pm 15\%$
2. Tolerance of measurement of Dominant wavelength: $\pm 2\text{nm}$
3. Tolerance of measurement of forward voltage: $\pm 0.05\text{v}$
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

- $T_a=25^{\circ}\text{C}$ Unless Otherwise Noted

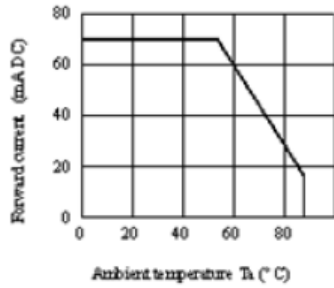


Fig 1. Forward Current Vs. Ambient Temperature

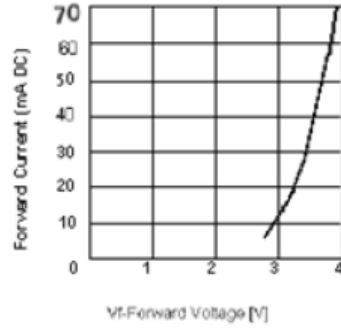


Fig. 2 Forward Current Vs. Forward Voltage

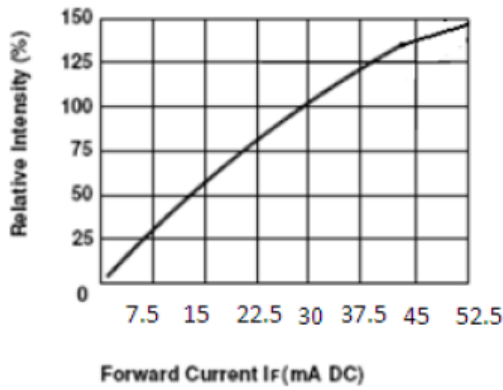


Fig 3. Relative Intensity Vs. Forward Current

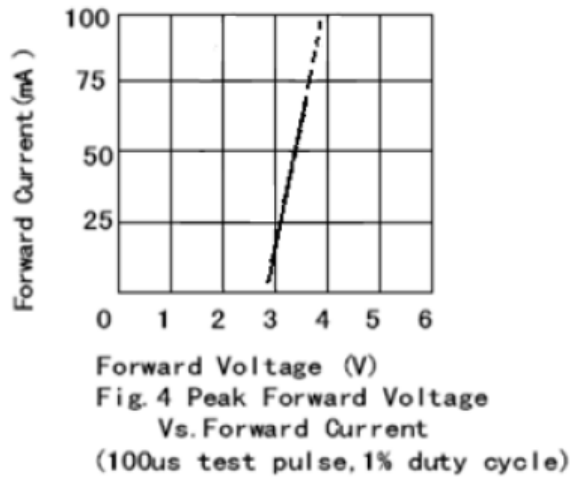


Fig. 4 Peak Forward Voltage Vs. Forward Current (100us test pulse, 1% duty cycle)

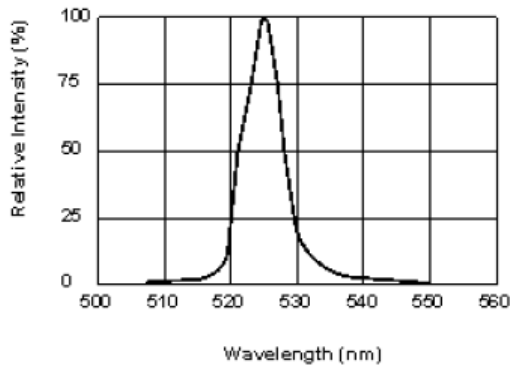


Fig 5. Relative Intensity Vs. Wavelength

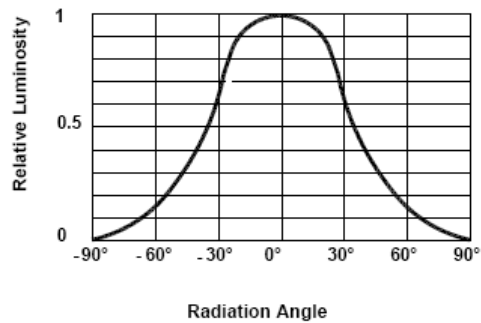


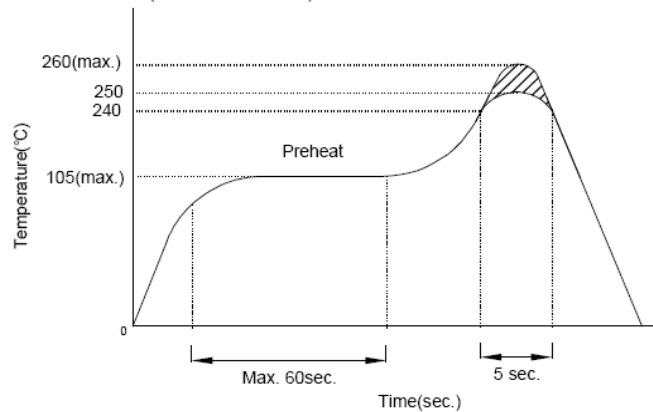
Fig 6. Radiation Diagram

Precautions for Use

1. Recommended soldering conditions

1.1. Wave soldering

Basic SPEC. is $\leq 5\text{sec.}$ When 260°C . If temperature is higher, time should be shorter ($+10^{\circ}\text{C} \rightarrow -1\text{sec.}$).



1.2. Recommended Soldering:

Power dissipation of iron should be smaller than 15W and temperature should be controllable.
Soldering temperature should be under 230°C , 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.



Customer Approval Signatures	Approved By	Checked By	Prepared By

Record Of Revisions			
Rev.	Comments	Page	Date
0	Released Spec	--	10/08/14