

PRODUCT SPECIFICATION

Part Number PLC762A-WCR04

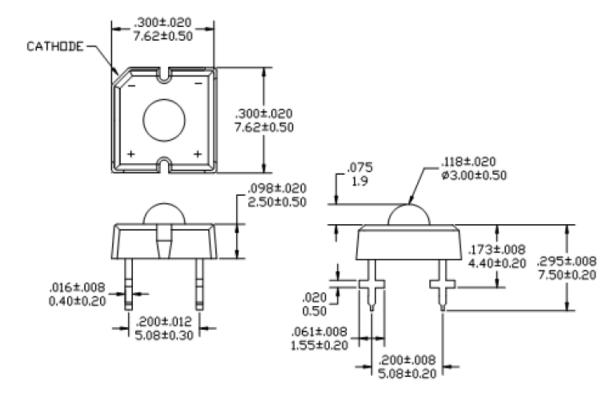
Details

- Piranha LED
- 7.62 x 7.62 x 9.4mm
- Emitting Color Red
- AlInGaP 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	
Wiodel Number	Material	l Emitting Color	
PLC762A-WCR04	AlInGaP	Red	

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit
		R	
Power Dissipation	Pad	260	mW
Continuous Forward Current	IAF	100	mA
Peak Current (duty cycle 1/10, 1KHz)	IPF	120	mA
Reverse Voltage	VR	5	V
Electrostatic Discharge (HBM)	ESD	1500	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.	Тур.	Max.	Unit	Condition
Forward Voltage	VF		2.1	2.6	V	
Luminous Flux	Iv	4000	6000		mlm	IF-70 A
Dominant Wavelength	λD		625		nm	IF=70mA
Viewing Angle	2θ1/2		70		deg	
Reverse Current	IR			50	μΑ	VR=5V



Luminous Flux Rank Limits (IF = 30mA)

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

Dominant Wavelength Rank Limits (IF = 30mA)

Code	Unit: nm		
	Min.	Max.	
A6	616	620	
R1	620	625	
R2	625	630	
R3	630	635	

Forward Voltage Rank Limits (IF = 30mA)

Code	Unit: V		
Code	Min.	Max.	
В	1.6	1.8	
С	1.8	2.0	
D	2.0	2.2	
Е	2.2	2.4	
F	2.4	2.6	

Notes:

1. Tolerance of measurement of luminous Flux: ±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

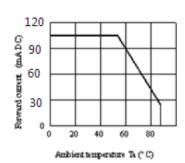
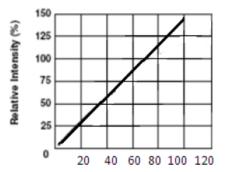


Fig 1. Forward Current Vs. Ambient Temperature



Forward Current IF(mA DC) Fig 3. Relative Intensity Vs. Forward Current

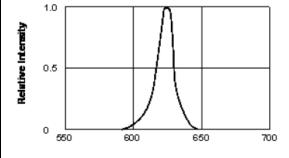


Fig 5. Relative Intensity Vs. Wavelength

Wavelength (nm)

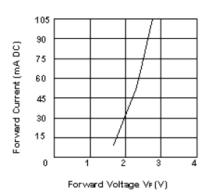
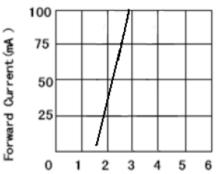


Fig. 2 Forward Current Vs. Forward Voltage



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

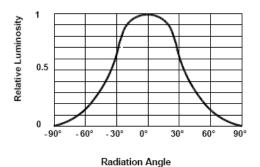


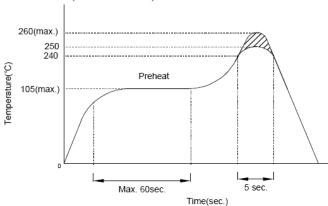
Fig 6. Radiation Diagram



Precautions for Use

- 1. Recommended soldering conditions
 - 1.1. Wave soldering

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



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.



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