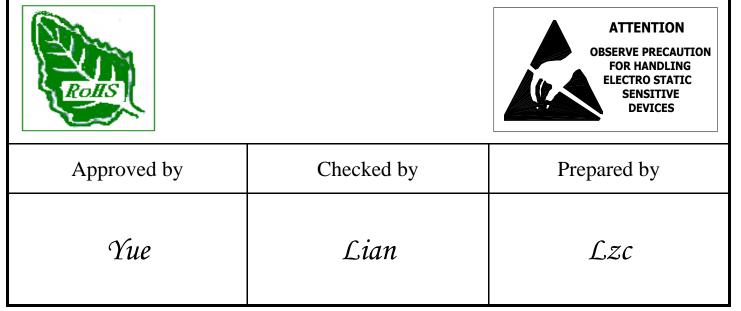


LEDTECH ELECTRONICS CORP.

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# SPECIFICATION

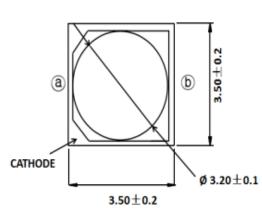
## PART NO. : LPFG13-FG-UBQ3-GS06 3.5 x 3.5mm SMD TYPE PRELIMINARY

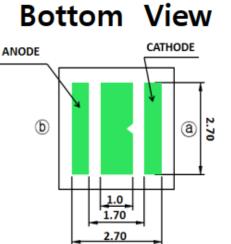


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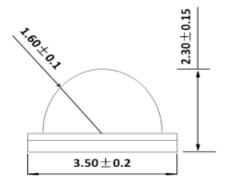


**Top View** 





Side View



Notes:

- 1. All dimensions are in mm.
- 2. The specifications, characteristics and technical data described in the datasheet are subject to change without notice.
- 3. Tolerance is  $\pm 0.25$ mm unless otherwise noted.

#### Description

Part No.	LED Ch		
	Material	Emitting Color	Lens Color
LPFG13-FG-UBQ3-GS06	AlGaInP/GaAs	RED	Water Clear



#### Absolute Maximum Ratings at Ta=25 $^\circ \!\!\! \mathbb{C}$

Parameter	Symbol	Rating	Unit
Reverse Voltage	VR	5	V
D.C. Forward Current	If	350	mA
Peak Current(1/10Duty Cycle,0.1ms Pulse Width.)	If(Peak)	700	mA
LED Junction Temperature	TJ	125	°C
Storage Temperature Range	Tstg.	-10 to +85	°C
Electric Static Discharge	ESD	2000(HBM)	V

#### Electrical and Optical Characteristics:

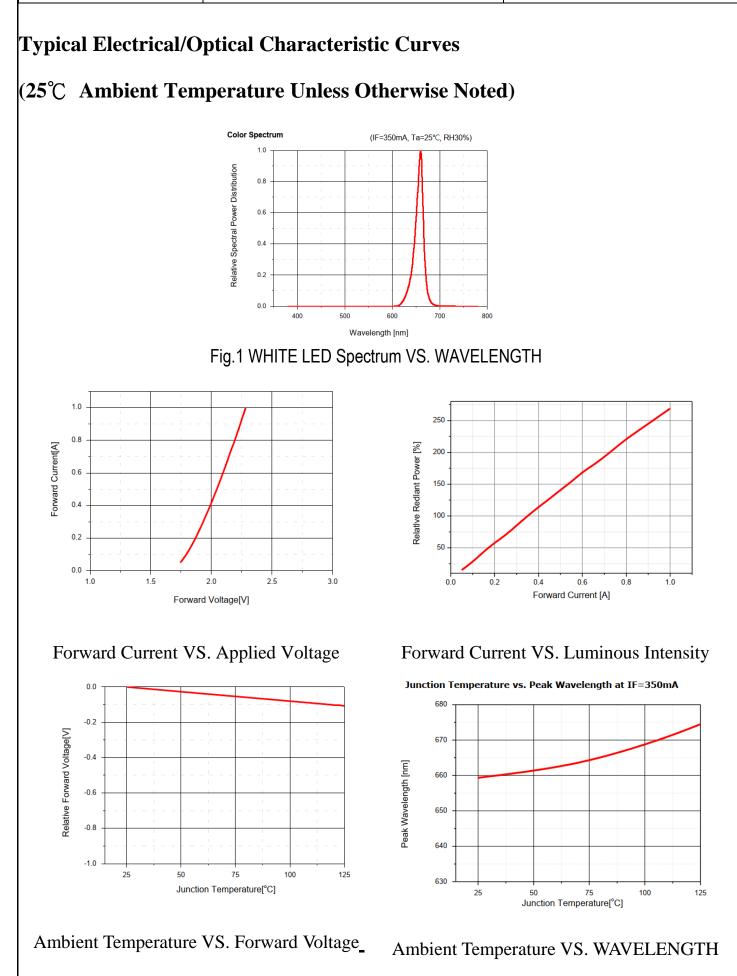
Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Radiant Power		If=350mA		510		mW
Forward Voltage	Vf	If=350mA		1.96		V
Dominant Wavelength	λd	If=350mA	646	657	667	nm
Thermal resistance	R⊖J-B	IF=350mA		3		k/W
Viewing Angle	2 <del>0</del> 1/2	If=350mA		125		deg

Notes: 1. Tolerance of Luminous Intensity is  $\pm 10\%$ 

2. Tolerance of Forward Voltage is  $\pm 0.05$ V

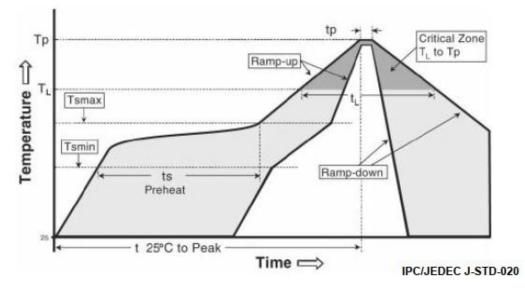
3. Tolerance of Dominant Wavelength is  $\pm 2nm$ 





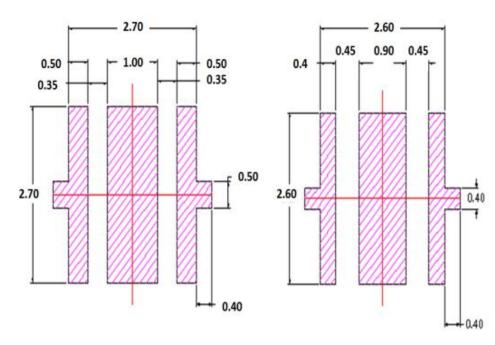


#### Reflow Temp/Time:



#### [ Recommended soldering pad design ]

Use the following conditions shown in the figure.



Recommended PCB Solder Pad Recommended Stencil Pattern



#### Sulfur-sensitive

- There is silver-plated metal part on the inner/outer side of the outer package. If exposed to the condition with corrosive gas, the silver plating surface may go bad, which will affect soldering strength and optical properties. Therefore, after opening it must be kept in a sealed container, etc.
- Materials contain sulfur component (gasket, adhesive, etc.) may have bad effects on the surface of the coating, so please do not use such materials in the product.
- In cardboard boxes and rubber, even in the atmosphere may contain minute amount of corrosive gases; In addition, the resin material may also contain halogen which has a bad effect on the surface of the coating.
- Even if the soldering installation and product assembly finished, by the effect of corrosive gas generated by relative materials of LED and external injected, the coating surface may go bad, so it is necessary to design the product taking into account the above factors.
- If requires, it is best to use a silicone washer, but be aware that low molecular silicone may cause the product poor contact.
- Keep the product in location where has less temperature change, because moisture condensation would be generated under a condition of strong temperature change.

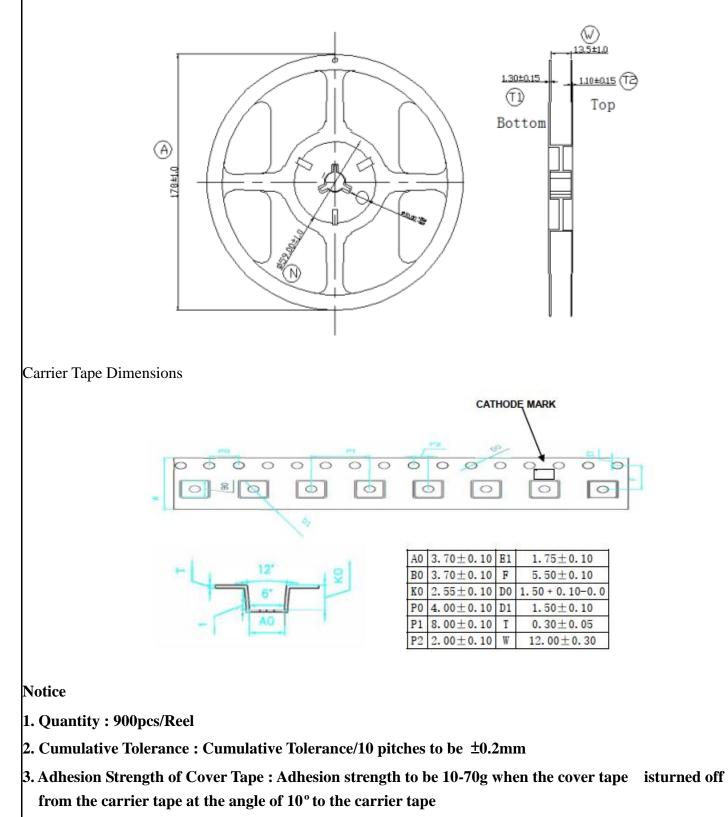
#### DISCLAIMER

- **1.** Our department reserves the right(s) on the adjustment of product material mix for the specification.
- 2.The product meets our department published specification for a period of twelve (12) months from date of shipment.
- 3. The graphs shown in this datasheet are representing typical data only and do not show guaranteed values.
- 4.When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. Our department assumes no responsibility for any damage resulting from the use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
- 5. These specification sheets include materials protected under copyright of our department. Reproduction in any form is prohibited without obtaining our department's prior consent.
- 6. This product is not intended to be used for military, aircraft, automotive, medical, life sustaining or life saving applications or any other application which can result in human injury or death.



### Packing

#### Reel Dimensions



4.Package : P/N, Manufacturing data Code No. and quantity to be indicated on a damp proof

Package