

# PRODUCT SPECIFICATION

**Model No.: FYQ-3661AUG-11-L6.0**

| Descriptions:                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>■ 0.36 Inch Six Digits Display</li> <li>■ Common Cathode</li> <li>■ Emitting Color : Ultra Green</li> <li>■ Chip Material:AlGaInP</li> <li>■ Black Face</li> <li>■ White Diffused Segment</li> </ul> |



| CUSTOMER APPROVED SIGNATURES | APPROVED BY | SALES BY                                                                            | PREPARED BY                                                                           |
|------------------------------|-------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                              |             |  |  |

**NINGBO FORYARD OPTOELECTRONICS CO.,LTD**

**Add:**NO.666 Jinghua Road, Hi-tech Park, Ningbo, Zhejiang, China

**Zip:**315103

**Tel:** 0086-574-87933652 87927870 87922206

**Fax:** 0086-574-87927917

**E-mail:**Sales@foryard.com ( General)

**Http://**www.foryard.com

[Http://www.foryard.com](http://www.foryard.com)

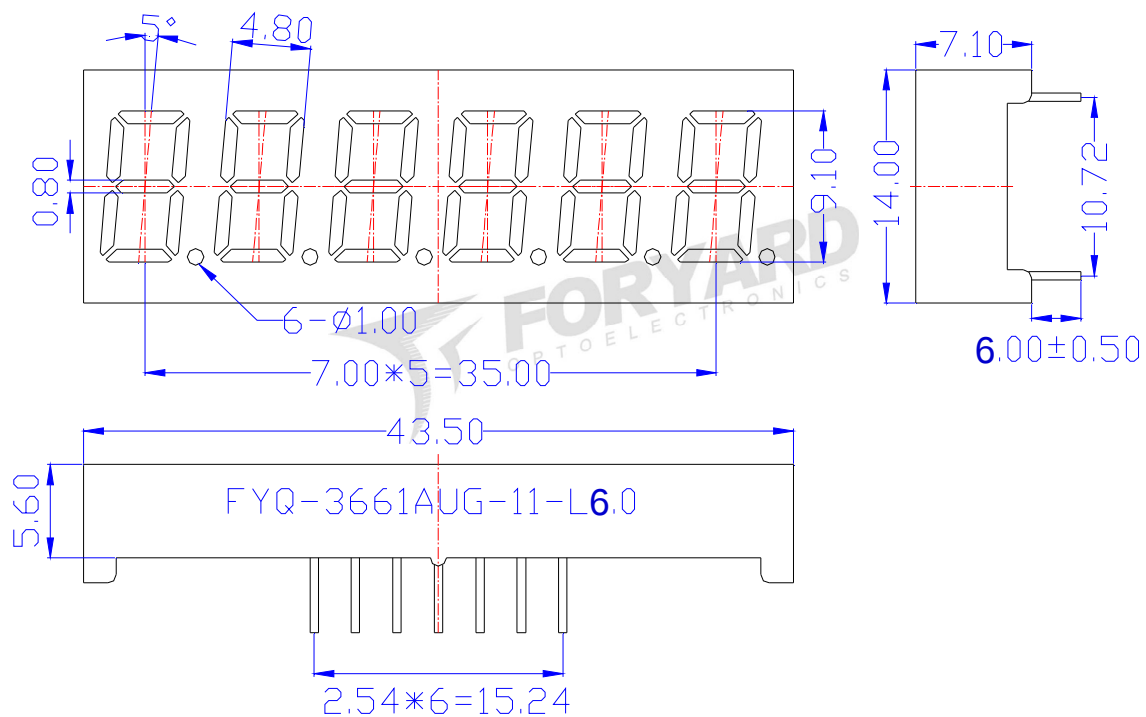
Page : 1/7

## Model No.: FYQ-3661AUG-11-L6.0

### ■ Features -

1. 0.36 inch (9.10mm) digit height.
2. Case mold type.
3. RoHS compliant.
4. Low current operation
5. Low power consumption.
6. Easy mounting on P.C. board or socket.

### ■ Mechanical Dimensions -

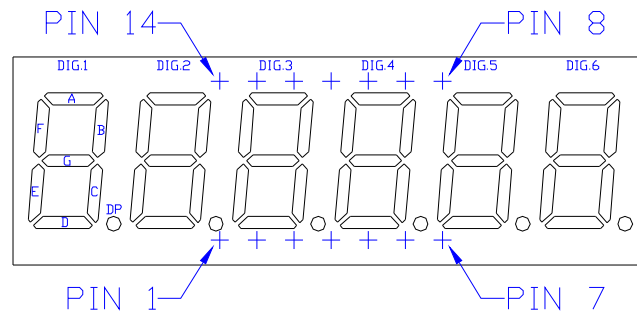


#### Notes:

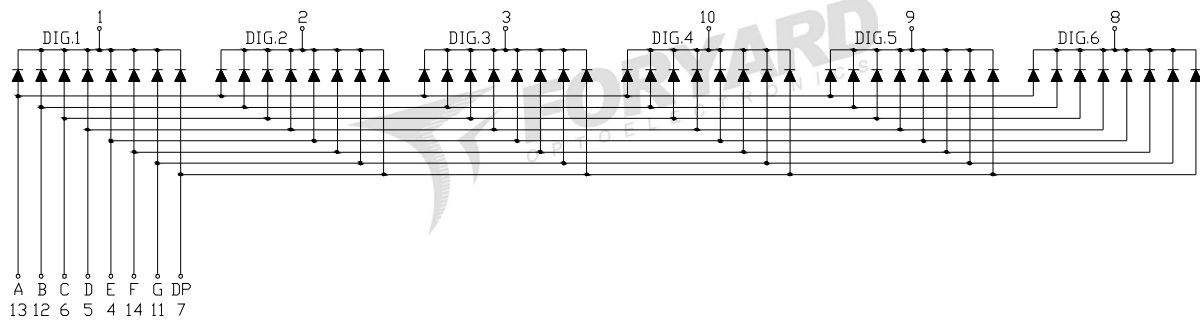
1. All pins are  $\Phi 0.51$  [0.020]mm
2. Dimension in millimeter [inch], tolerance is  $\pm 0.25$  [0.010] and angle is  $\pm 1^\circ$  unless otherwise noted.
3. Bending  $\leq$  Length\*1%.
4. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

**Model No.: FYQ-3661AUG-11-L6.0**

### ■ All Light On Segments Feature & Pin Position



### ■ Internal Circuit Diagrams



Model No.: FYQ-3661AUG-11-L6.0

■ Absolute maximum ratings

(Ta=25℃)

| Parameter             | Symbol | Test Condition  | Value |     | Unit |
|-----------------------|--------|-----------------|-------|-----|------|
|                       |        |                 | Min   | Max |      |
| Reverse Voltage       | VR     | IR=30           | 5     | —   | V    |
| Forward Current       | IF     | —               | —     | 30  | mA   |
| Power Dissipation     | Pd     | —               | —     | 100 | mW   |
| Pulse Current         | Ipeak  | Duty=0.1mS,1KHz | —     | 150 | mA   |
| Operating Temperature | Topr   | —               | -40   | +85 | ℃    |
| Storage Temperature   | Tstr   | —               | -40   | +85 | ℃    |

■ Electrical-Optical Characteristics

● Color Code & Chip Characteristics:(Test Condition:IF=20mA)

(Ta=25℃)

| Emitting Color                                    |             | Dice Material | Peak Wave Length( $\lambda_p$ ) | Spectral Line halfwidth h( $\Delta\lambda_{1/2}$ ) | Forward Voltage(VF)<br>Unit:V |       | Luminous Intensity (Iv)<br>Unit:mcd |
|---------------------------------------------------|-------------|---------------|---------------------------------|----------------------------------------------------|-------------------------------|-------|-------------------------------------|
|                                                   |             |               |                                 |                                                    | Typ                           | Max   |                                     |
| UG                                                | Ultra Green | AlGaInP       | 570nm                           | 30nm                                               | 1.90                          | 2.50  | 30~60                               |
| Segment-to-Segment Luminous Intensity ratio(Iv-M) |             |               |                                 |                                                    |                               | 1.5:1 |                                     |

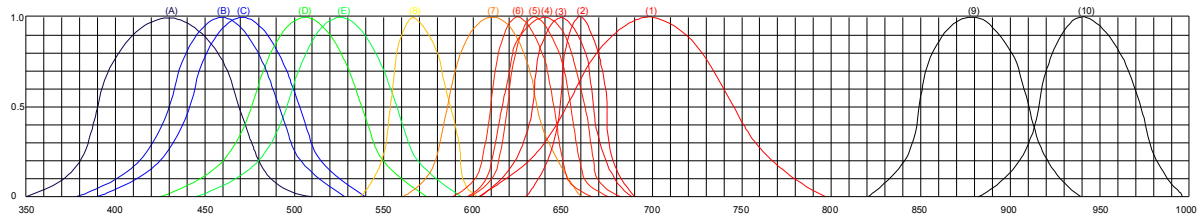
Note:

- 1.Luminous Intensity is based on the Foryard standards.
- 2.Pay attention about static for InGaN

Model No.: FYQ-3661AUG-11-L6.0

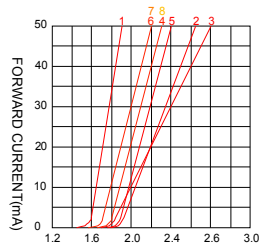
## Typical Electrical / Optical Characteristics Curves

(Ta = 25°C Unless Otherwise Noted)

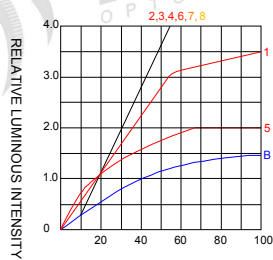


Wavelength(nm)  
RELATIVE INTENSITY Vs WAVELENGTH(  $\lambda_p$ )

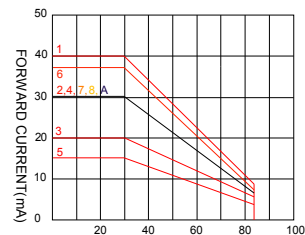
- |                                |                                    |
|--------------------------------|------------------------------------|
| (1)-GaP 700nm/Red              | (9)-GaAlAs 880nm                   |
| (2)-AlGaAs/SH 660nm/Hi Red     | (10)-GaAs/GaAs & GaAlAs/GaAs 940nm |
| (3)-AlGaAs/DH 650nm/Super Red  | (A)-GaN/SiC 430nm/Blue             |
| (4)-AlGaInP/640nm/Ultra Hi Red | (B)-InGaN/SiC 460nm/Blue           |
| (5)-AlGaInP/635nm/Ultra Red    | (C)-InGaN/SiC 470nm/Blue           |
| (6)-GaAlP/AlGaInP/625nm/Orange | (D)-InGaN/SiC 505nm/Ultra Green    |
| (7)-GaAsP/AlGaInP 610nm/Amber  | (E)-InGaN/SiC 525nm/Ultra Green    |
| (8)-GaP 570nm/Yellow Green     |                                    |



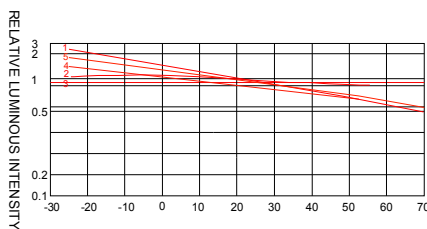
FORWARD VOLTAGE(Vf)  
FORWARD CURRENT VS.  
FORWARD VOLTAGE



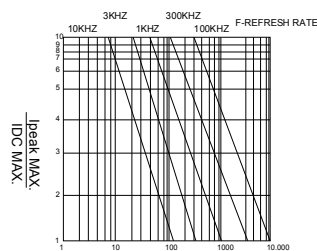
FORWARD CURRENT (mA)  
RELATIVE LUMINOUS  
INTENSITY VS FORWARD  
CURRENT



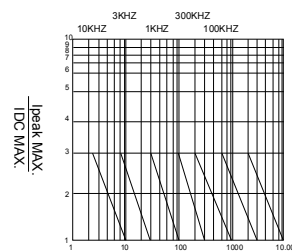
AMBIENT TEMPERATURE Ta(°C)  
FORWARD CURRENT VS. AMBIENT  
TEMPERATURE



AMBIENT TEMPERATURE  
Ta(°C)



tp-PULSE DURATION  $\mu$ S  
(1,2,3,4,6,8,B,D,J,K)



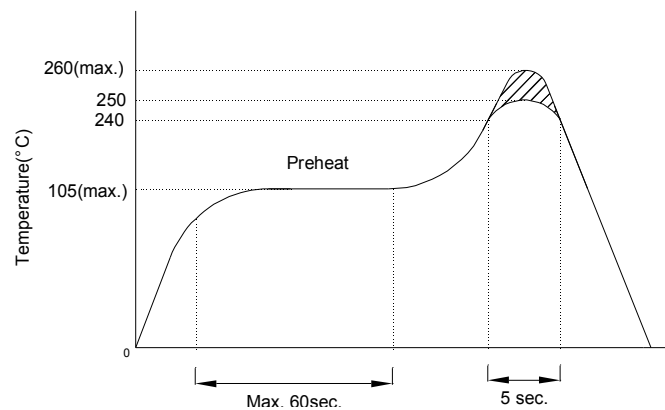
tp-PULSE DURATION  $\mu$ S  
(5)

NOTE: 25°C free air temperature unless otherwise specified

**Model No.: FYQ-3661AUG-11-L6.0**

## ■ Precautions For Use -

### 1. Recommended Soldering conditions-Wave Soldering



### 2. Soldering Iron

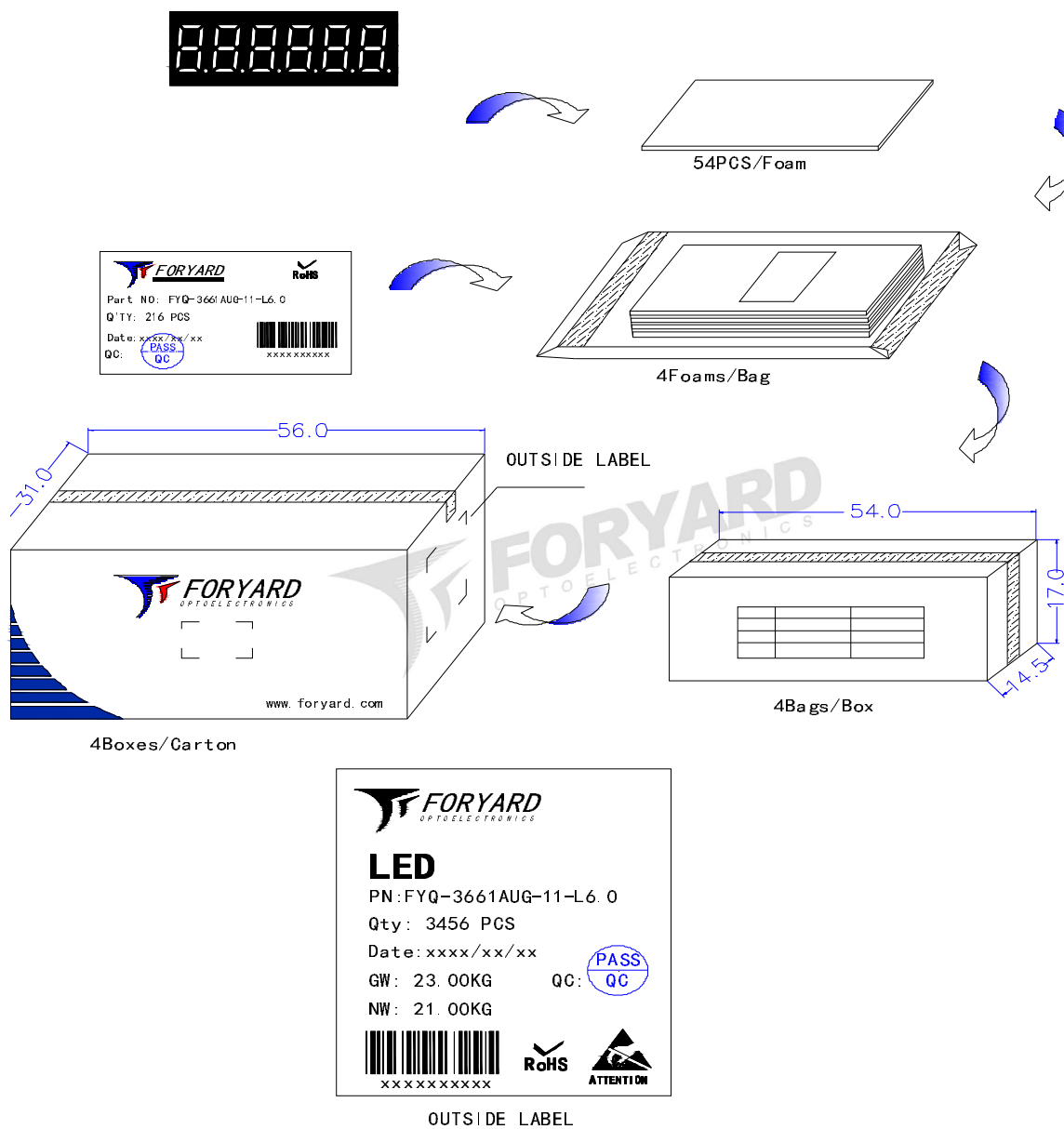
Basic SPEC. is  $\leq 5$ sec. When 260°C. If temperature is higher, time should be shorter (+10°C → -1sec.).

Power dissipation of iron should be smaller than 15W, and temperature should be controllable.

Surface temperature of the device should be under 230°C.

Model No.: FYQ-3661AUG-11-L6.0

## ■ Packing Diagram



Note: The specifications are subject to change without notice. Please contact us for updated information.

[Http://www.foryard.com](http://www.foryard.com)

Page : 7/7