

# PRODUCT SPECIFICATION

**Model No.: FYQ-5652AUW-25-DW**

Descriptions:
<ul style="list-style-type: none"> <li>■ 0.56 Inch Five Digits Display</li> <li>■ Common Cathode</li> <li>■ Emitting Color : Ultra White</li> <li>■ Chip Material:InGaN</li> <li>■ Gray Face</li> <li>■ YAG Diffused Segment</li> </ul>



CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

**NINGBO FORYARD OPTOELECTRONICS CO.,LTD**

**Add:**NO.115 Qixin Road Ningbo Zhejiang China

**Zip:**315042

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

**Fax:** 0086-574-87927917

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

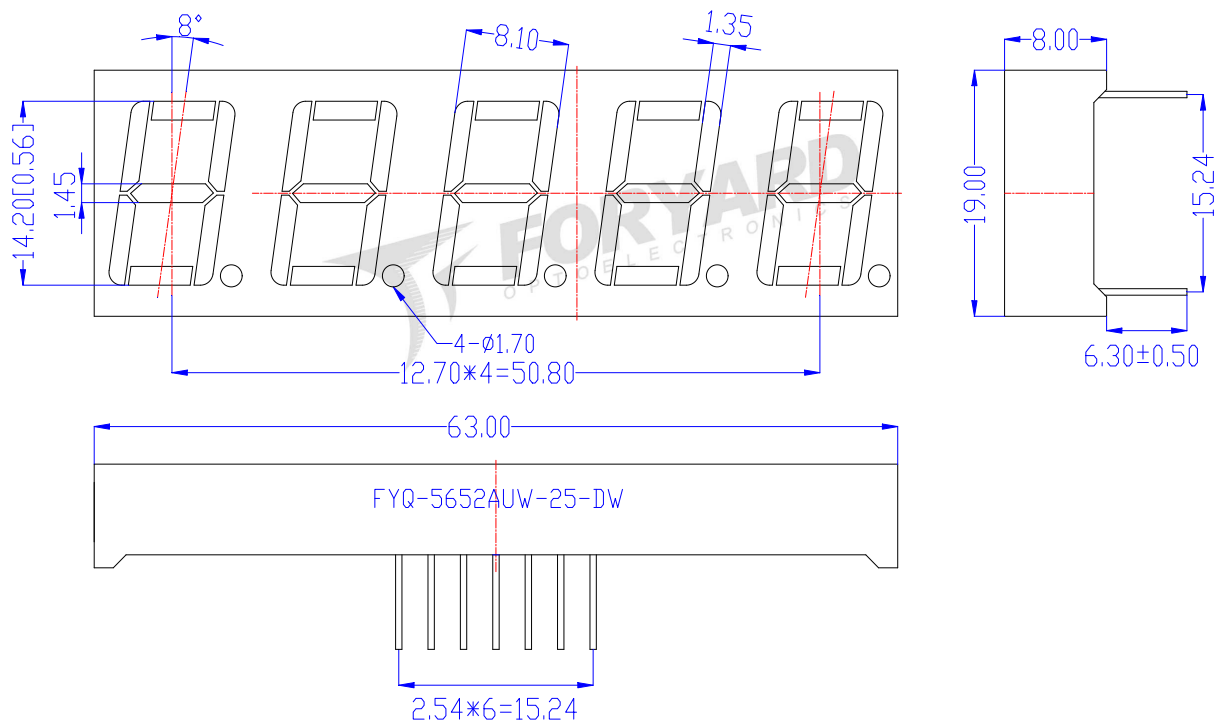
**Http://**www.foryard.com

**Model No.: FYQ-5652AUW-25-DW**

■ **Features -**

1. 0.56 inch (14.20mm) 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 -**

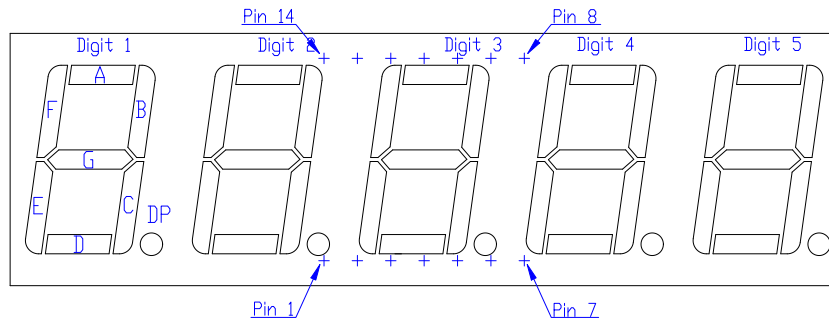


Notes:

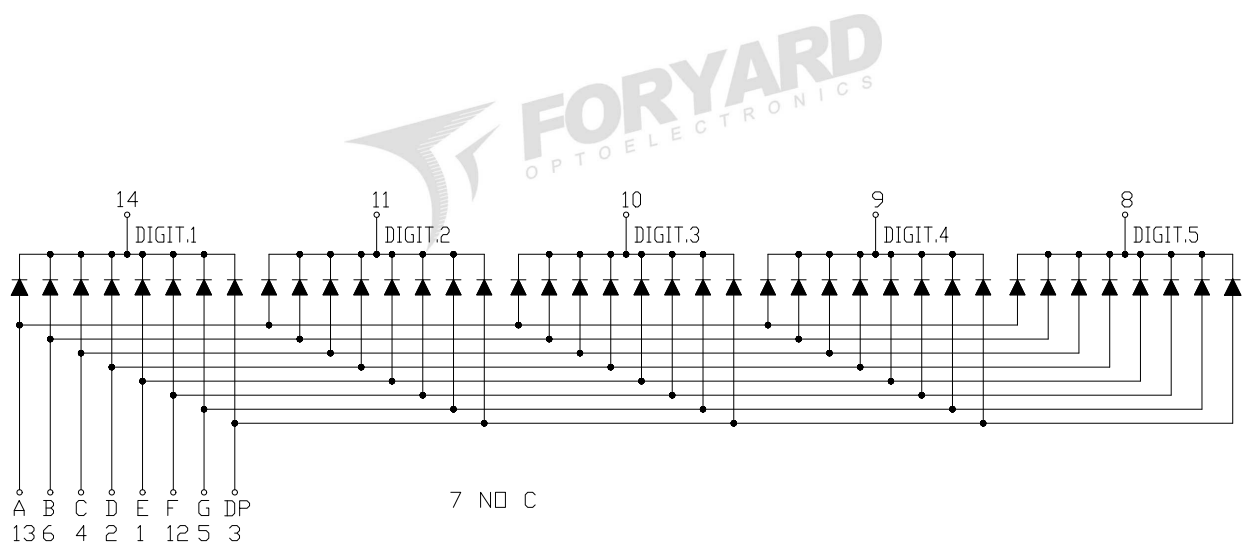
1. All pins are  $\Phi 0.50 [0.020]$ mm
2. Dimension in millimeter [inch], tolerance is  $\pm 0.25 [0.010]$  and angle is  $\pm 1^\circ$  unless otherwise noted.
3. Bending  $\leq$  Length \* 1%.
4. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

Model No.: FYQ-5652AUW-25-DW

■ All Light On Segments Feature & Pin Position



■ Internal Circuit Diagrams



**Model No.:** FYQ-5652AUW-25-DW

■ **Absolute maximum ratings**

(Ta=25°C)

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	°C
Storage Temperature	Tstr	—	-40	+85	°C

■ **Electrical-Optical Characteristics**

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

(Ta=25°C)

Emitting Color		Dice Material	Peak Wave Length( $\lambda_p$ )	Spectral Line halfwidth h( $\Delta\lambda_{1/2}$ )	Forward Voltage(VF) Unit:V		Luminous Intensity (Iv) Unit:mcd
					Typ	Max	
UW	Ultra White	InGaN	X=0.30,Y=0.31	CCT:800 0-9500K	2.80	3.80	180-200
Segment-to-Segment Luminous Intensity ratio(Iv-M)						1.5:1	

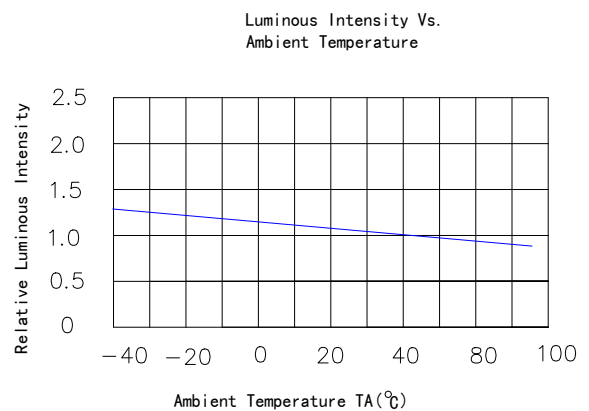
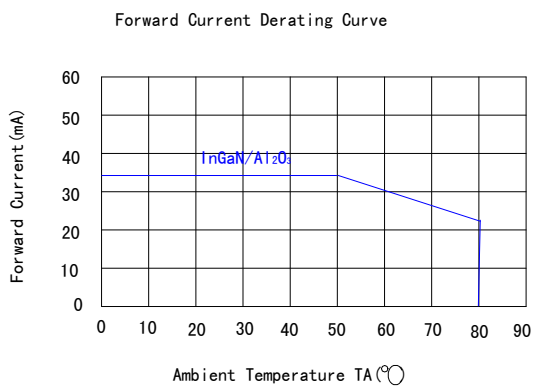
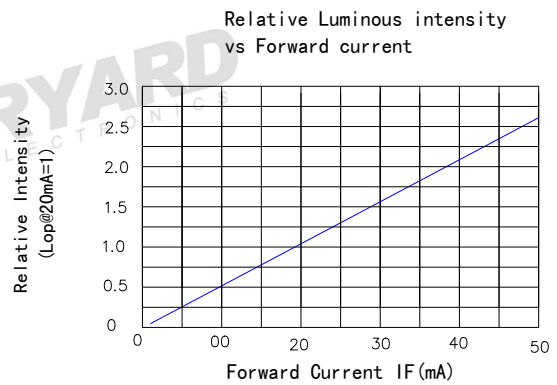
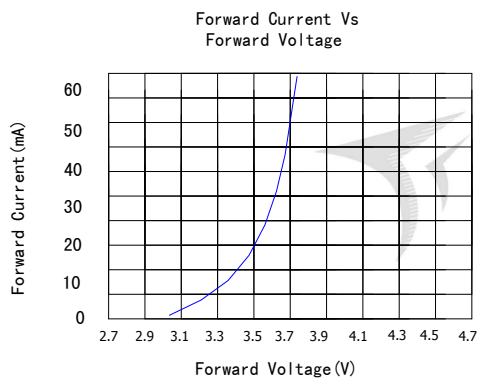
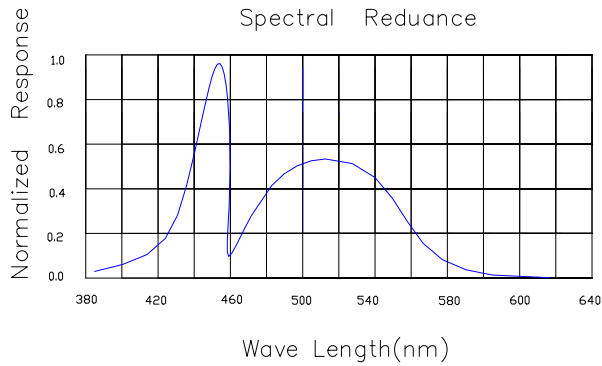
Note:

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

Model No.: FYQ-5652AUW-25-DW

### Typical Electrical / Optical Characteristics Curves

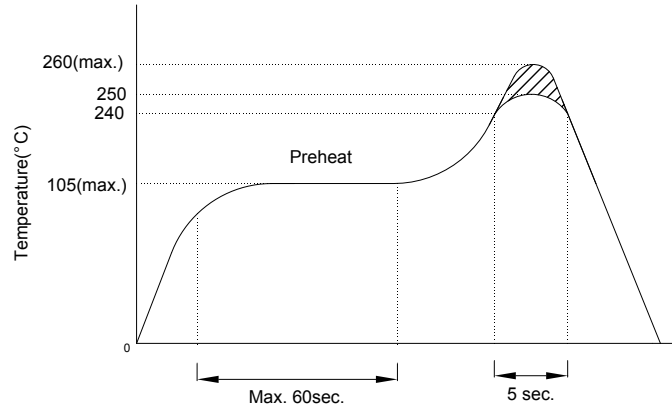
(Ta = 25°C Unless Otherwise Noted)



Model No.: FYQ-5652AUW-25-DW

## ■ Precautions For Use -

### 1. Recommended Soldering conditions-Wave Soldering



### 2. Soldering Iron

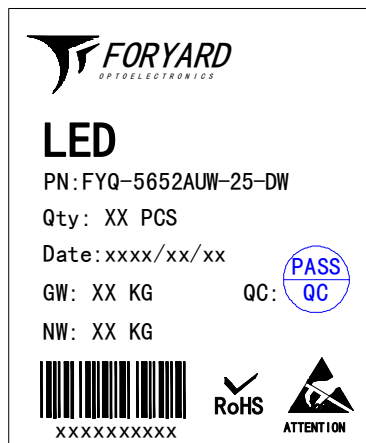
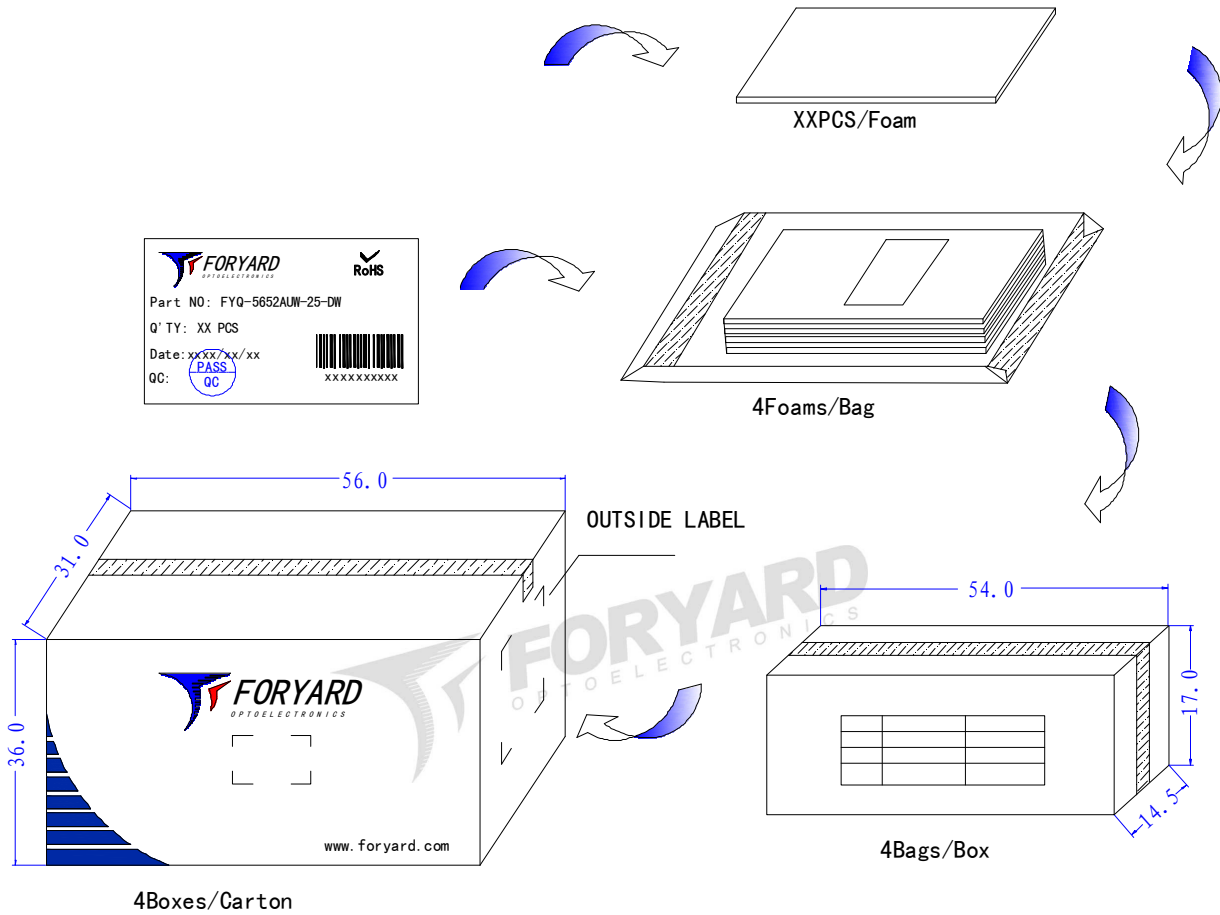
Basic SPEC. is  $\leq 5$ sec. When  $260^{\circ}\text{C}$ . If temperature is higher, time should be shorter ( $+10^{\circ}\text{C} \rightarrow -1$ sec.).

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

Surface temperature of the device should be under  $230^{\circ}\text{C}$ .

**Model No.:** FYQ-5652AUW-25-DW

■ Packing Diagram



OUTSIDE LABEL

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

Model No.: FYQ-5652AUW-25-DW

■ 修改记录

日期	修改内容	工程师	版本
2016-7-27	新增,	王宏波	A