



# PRODUCT SPECIFICATION

**Model No.: FYM-15881BUW-15-DW**

Descriptions:
<ul style="list-style-type: none"> <li>■ 1.5 Inch Dot-Matrix Display</li> <li>■ 8*8 Array With X-Y Select.</li> <li>■ Column Cathode, Row Anode</li> <li>■ Emitting Color : Ultra White</li> <li>■ Chip Material:InGaN</li> <li>■ Black Face</li> <li>■ YAG Diffused Segment</li> </ul>



CUSTOMER APPROVED SIGNATURES	APPROVED BY	SALES BY	PREPARED BY
			

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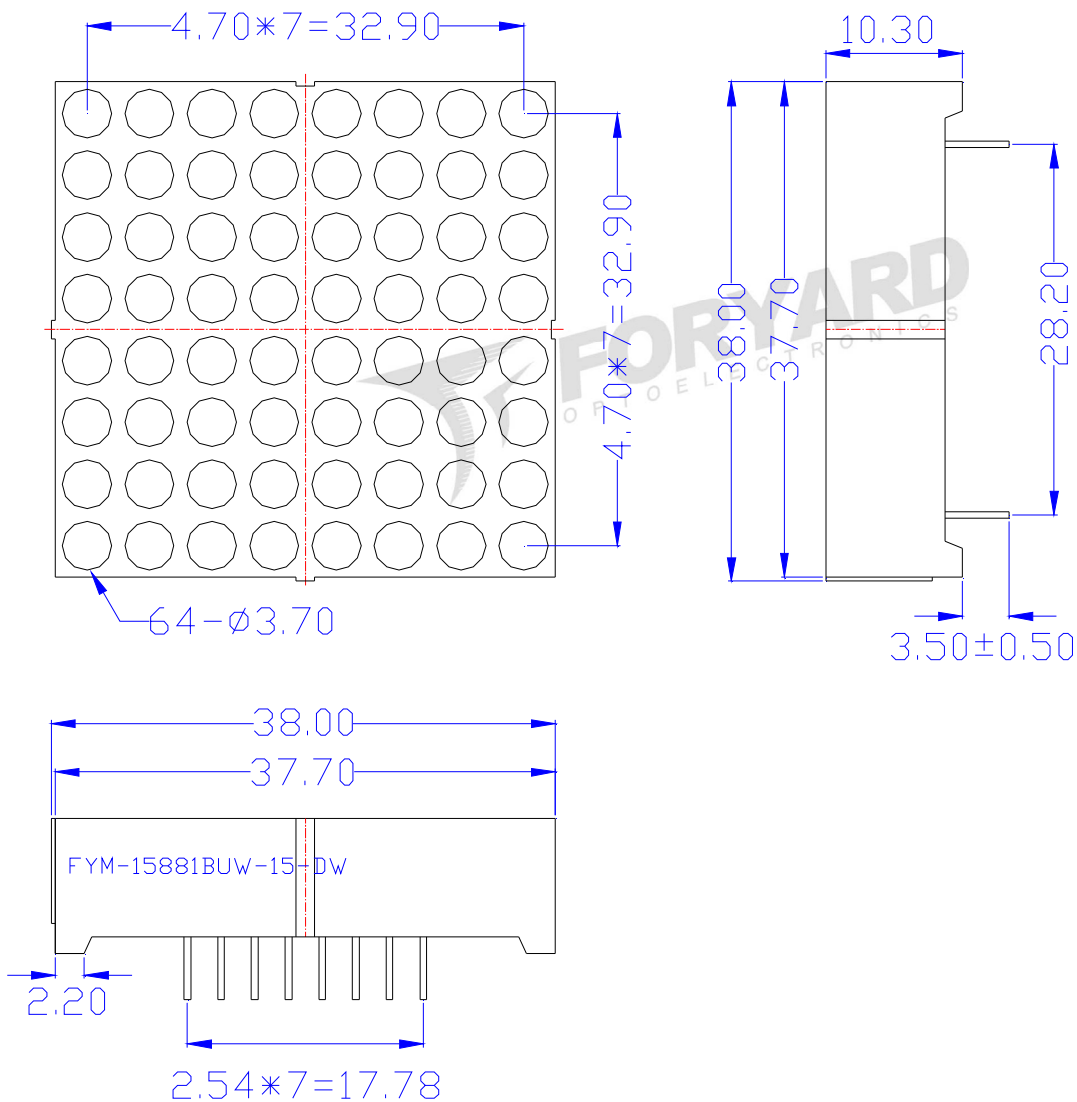
**Http://www.foryard.com**

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**Features -**

1. 1.5 inch (36.60mm) Matrix 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 -**

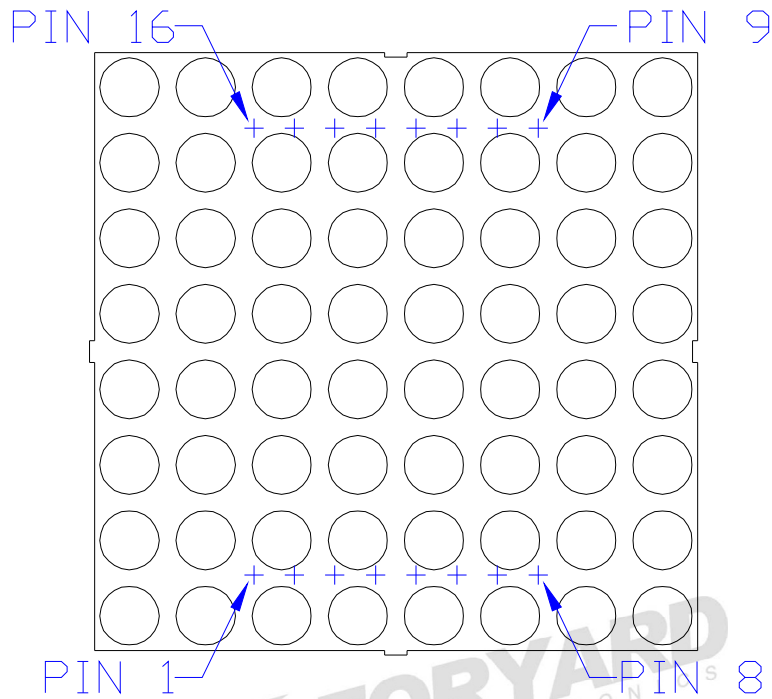


**Notes:**

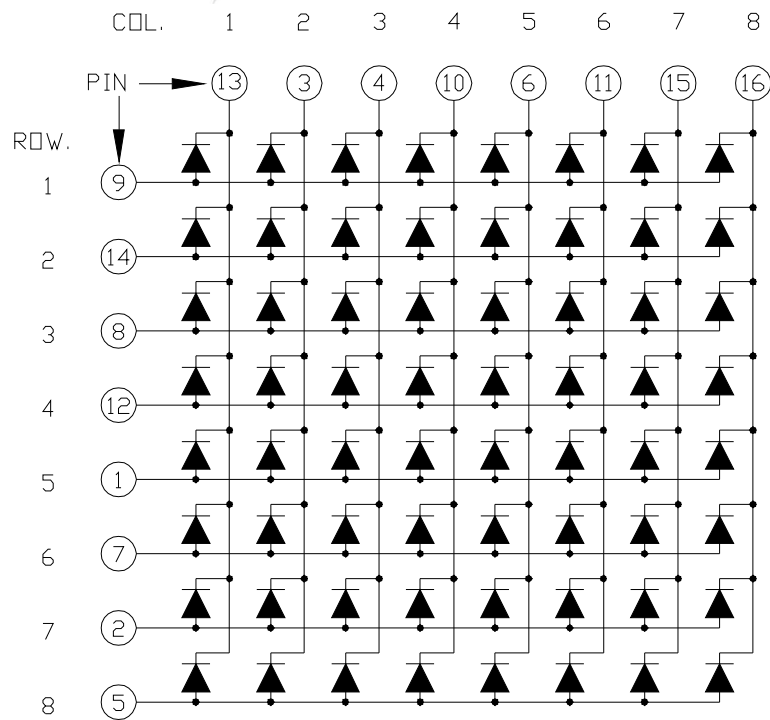
1. All pins are  $\phi 0.51 [ .020 ]$  mm
2. Dimension in millimeter [inch], tolerance is  $\pm 0.25 [ .010 ]$  and angle is  $\pm 1^\circ$  unless otherwise noted.
3. Bending  $\leq$  Length \* 1%.
4. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

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



**■ Internal Circuit Diagrams -**



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■ **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	—	—	120	mW
Pulse Current	Ipeak	Duty=0.1mS,1KHz	—	80	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( $\Delta\lambda/2$ )	Forward Voltage(VF) Unit:V		Luminous Intensity (Iv) Unit:mcd
					Typ	Max	
UW	Ultra White	InGaN	X:0.29;Y:0.30	CCT:9500K	2.80	3.80	180-200
Dot-to-Dot Luminous Intensity ratio(Iv-M)					1.5:1		

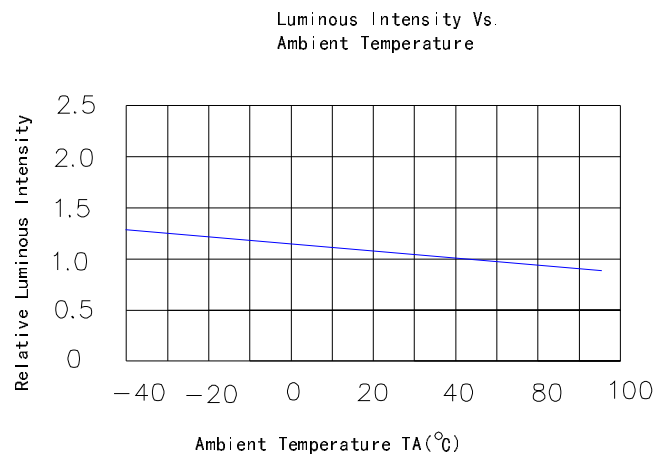
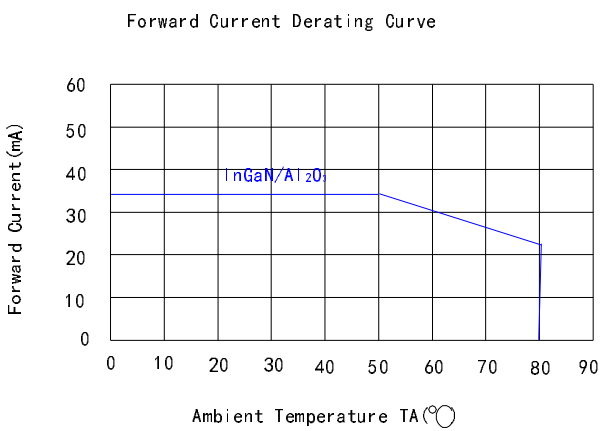
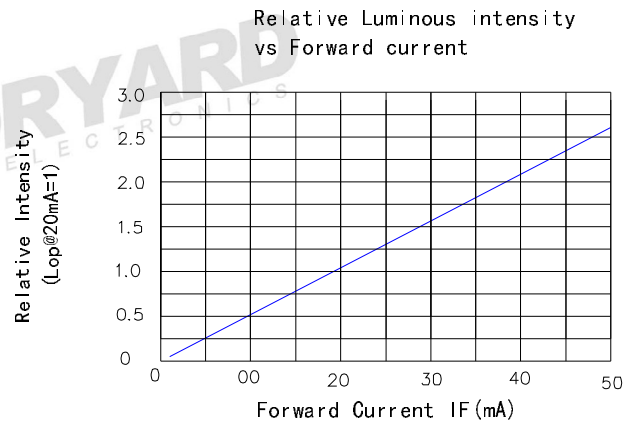
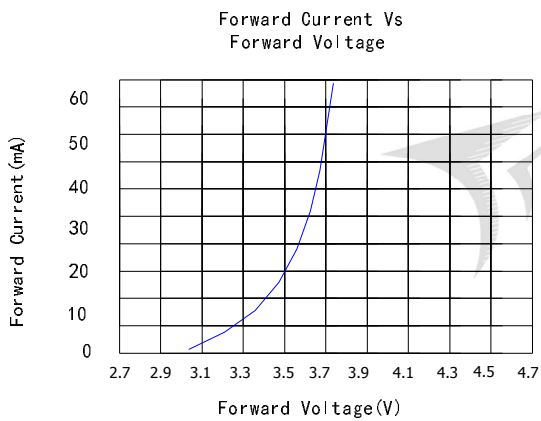
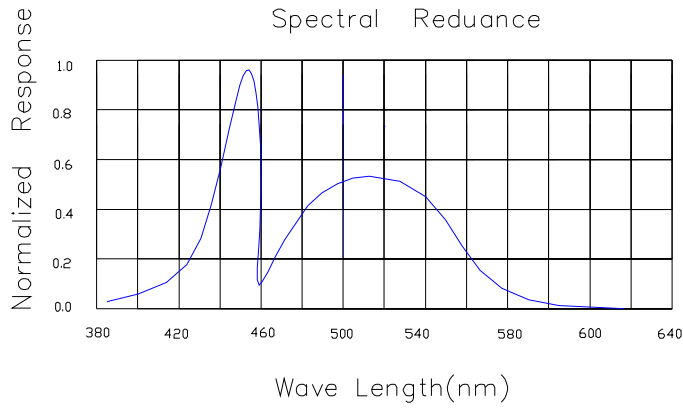
Note:

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

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### Typical Electrical / Optical Characteristics Curves

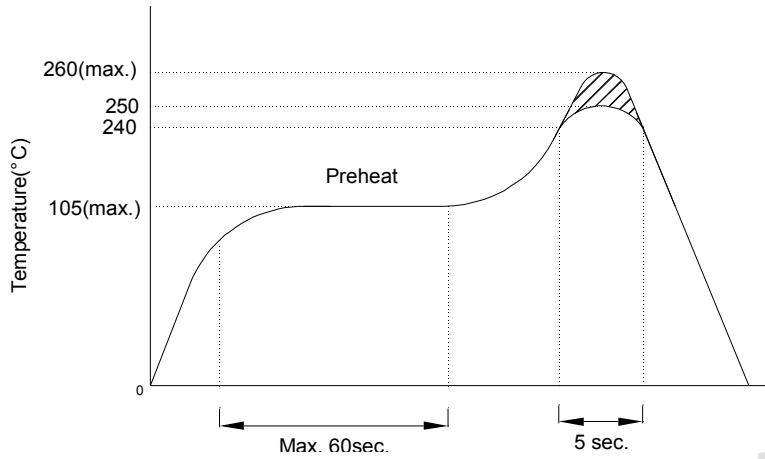
(Ta = 25°C Unless Otherwise Noted)



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**■ Precautions For Use -**

**1. Recommended Soldering conditions-Wave Soldering**



**2. Soldering Iron**

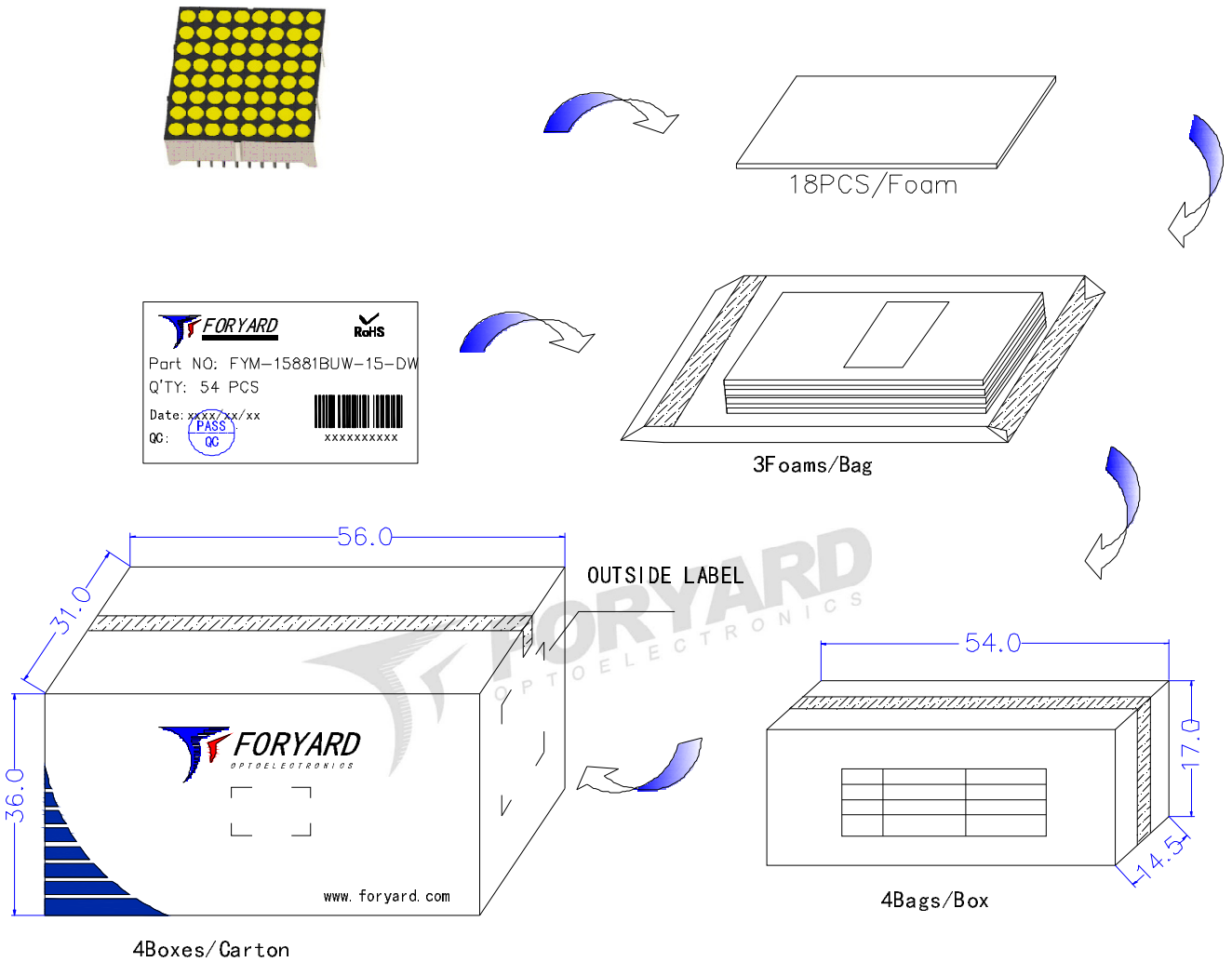
Basic SPEC. is  $\leq 5$ sec. When  $260^{\circ}\text{C}$ . If temperature is higher, time should be shorter ( $+10^{\circ}\text{C} \rightarrow -1\text{sec.}$ ).

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

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

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**■ Packing Diagram**




**FORYARD**  
OPTOELECTRONICS

**LED**

PN: FYM-15881BUW-15-DW

Qty: 1152 PCS

Date: xxxx/xx/xx

QC: **PASS QC**

GW: 25.00KG

NW: 23.00KG

**RoHS** **ATTENTION**

XXXXXXXXXX

OUTSIDE LABEL

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