

PRODUCT SPECIFICATION

Model No.: FYM-19882AUHRUB-11-DW-C

Descriptions:
<ul style="list-style-type: none"> ■ 1.9 Inch Dot-Matrix Display ■ 8*8 Array With X-Y Select. ■ Column Anode, Row Cathode ■ Emitting Color : Ultra Hi Red/Ultra Blue ■ Chip Material:AlGaInP/InGaN ■ Black Face ■ White Dot



CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

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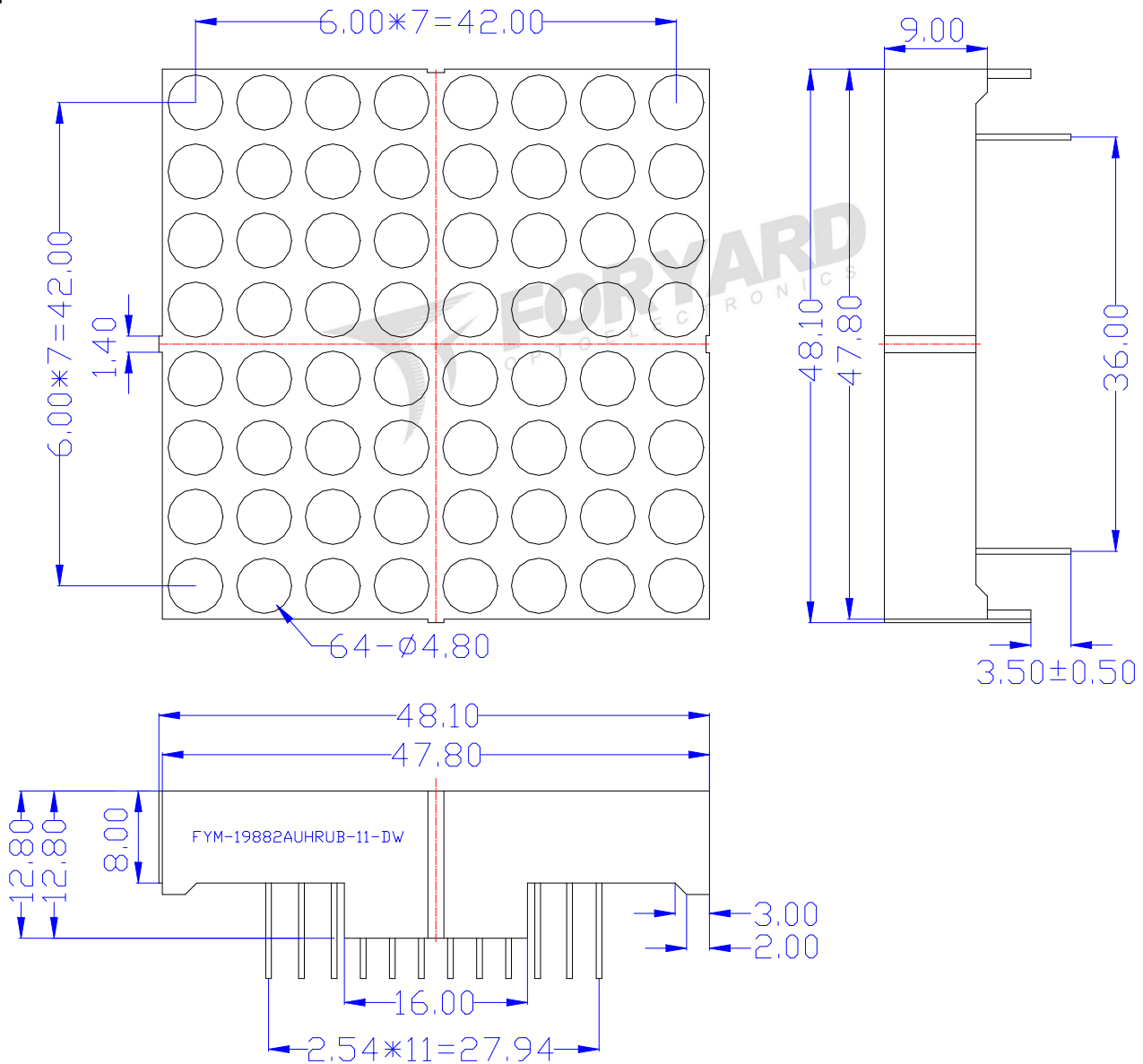
Http://www.foryard.com

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Features -

1. 1.9 inch (46.00mm) 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 -

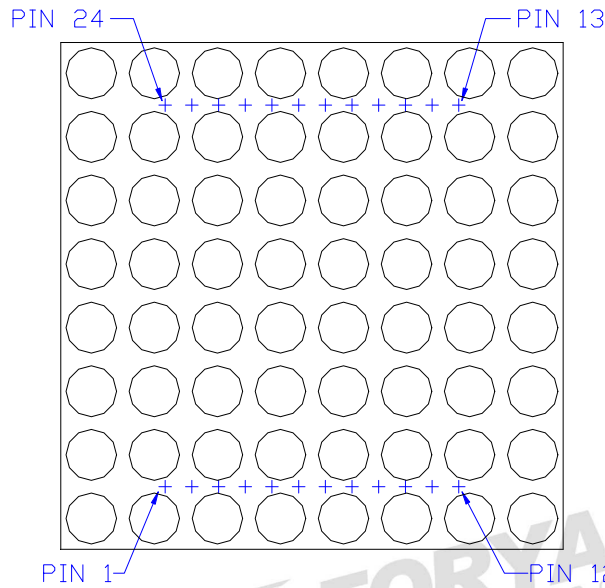


Notes:

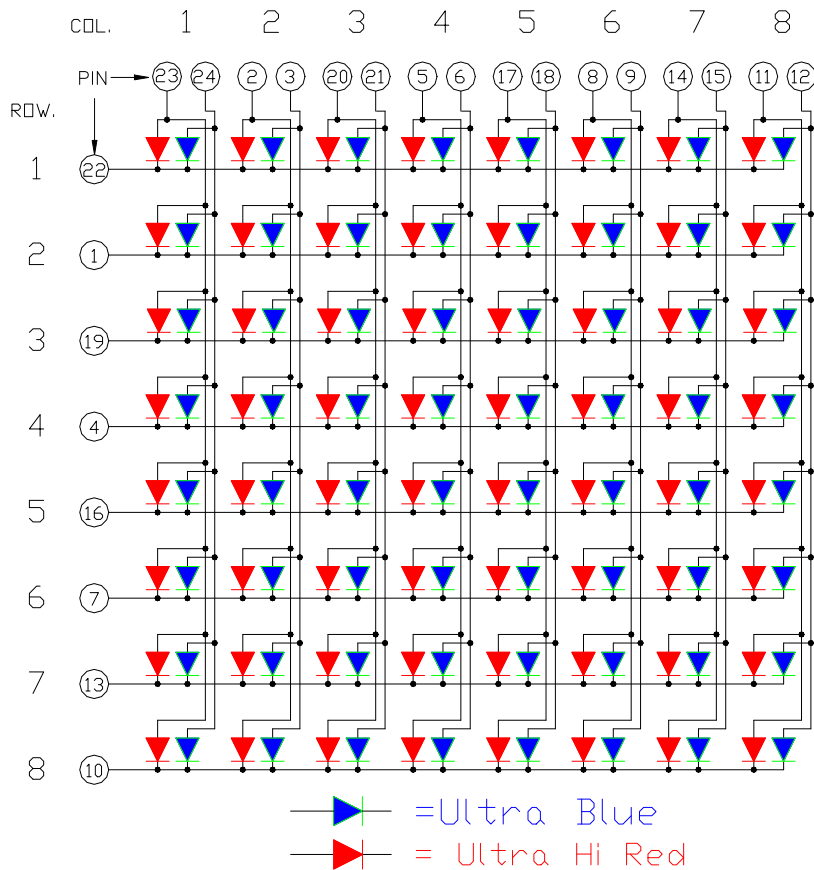
1. All pins are $\phi 0.50 [.020]$ mm
2. Dimension in millimeter [inch], tolerance is $\pm 0.25 [.010]$ and angle is $\pm 1^\circ$ unless otherwise noted.
3. Bending \leq Length * 1%.
4. The specifications, characteristics and technical data described in the datasheet are subject to change without prior 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	—	—	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(λ_p)	Spectral Line halfwidth h($\Delta\lambda_{1/2}$)	Forward Voltage(VF) Unit:V		Luminous Intensity (Iv) Unit:mcd
					Typ	Max	
UHR	Ultra Hi Red	AlGaInP	640nm	20nm	1.90	2.50	30~60
UB	Ultra Blue	InGaN	470nm	60nm	2.80	3.80	60~120
Dot-to-Dot Luminous Intensity ratio(Iv-M)					1.5:1		

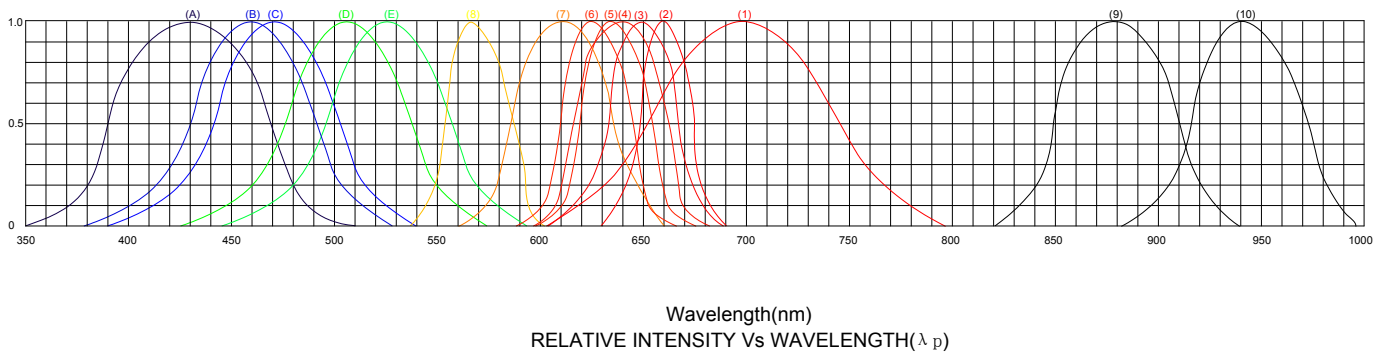
Note:

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

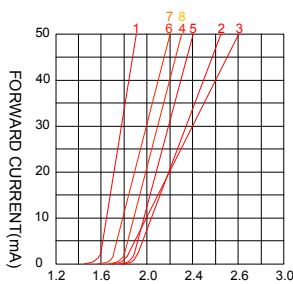
Model No.: FYM-19882AUHRUB-11-DW-C

Typical Electrical / Optical Characteristics Curves

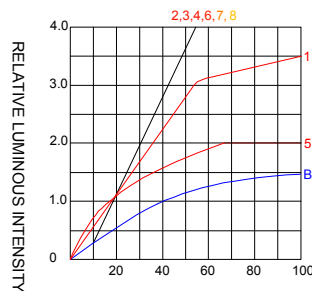
(Ta = 25°C Unless Otherwise Noted)



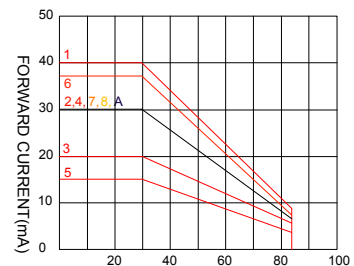
- | | |
|--------------------------------|------------------------------------|
| (1)-GaP 700nm/Red | (9)-GaAlAs 880nm |
| (2)-AlGaAs/SH 660nm/Hi Red | (10)-GaAs/GaAs & GaAlAs/GaAs 940nm |
| (3)-AlGaAs/DH 650nm/Super Red | (A)-GaN/SiC 430nm/Blue |
| (4)-AlGaInP/640nm/Ultra Hi Red | (B)-InGaN/SiC 460nm/Blue |
| (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 | |



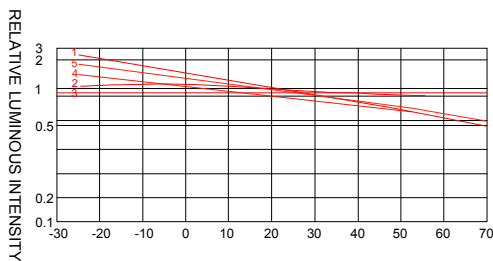
FORWARD VOLTAGE(V)
FORWARD CURRENT VS.
FORWARD VOLTAGE



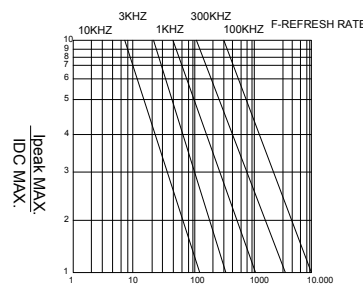
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS FORWARD
CURRENT



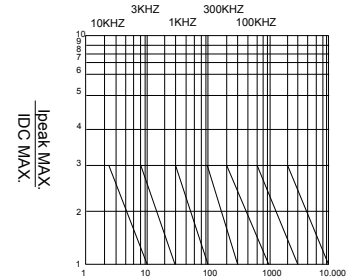
AMBIENT TEMPERATURE Ta(°C)
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



AMBIENT TEMPERATURE Ta(°C)



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



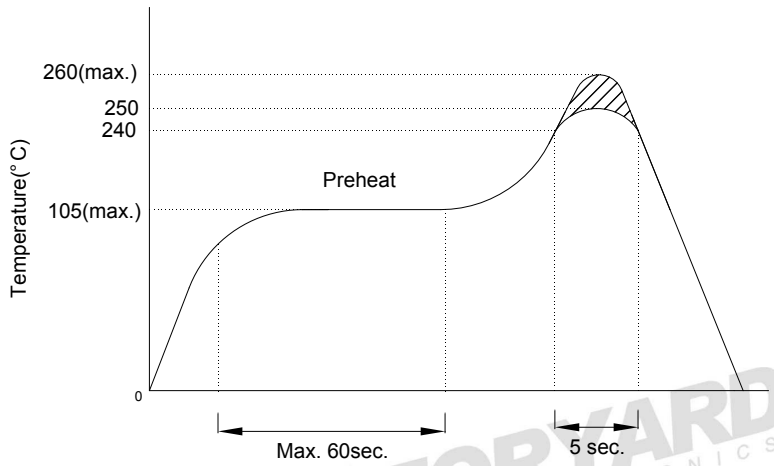
tp-PULSE DURATION μ S
(5)

NOTE:25°C free air temperature unless otherwise specified

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■ Precautions For Use -

1. Recommended Soldering conditions-Wave Soldering



2. Soldering Iron

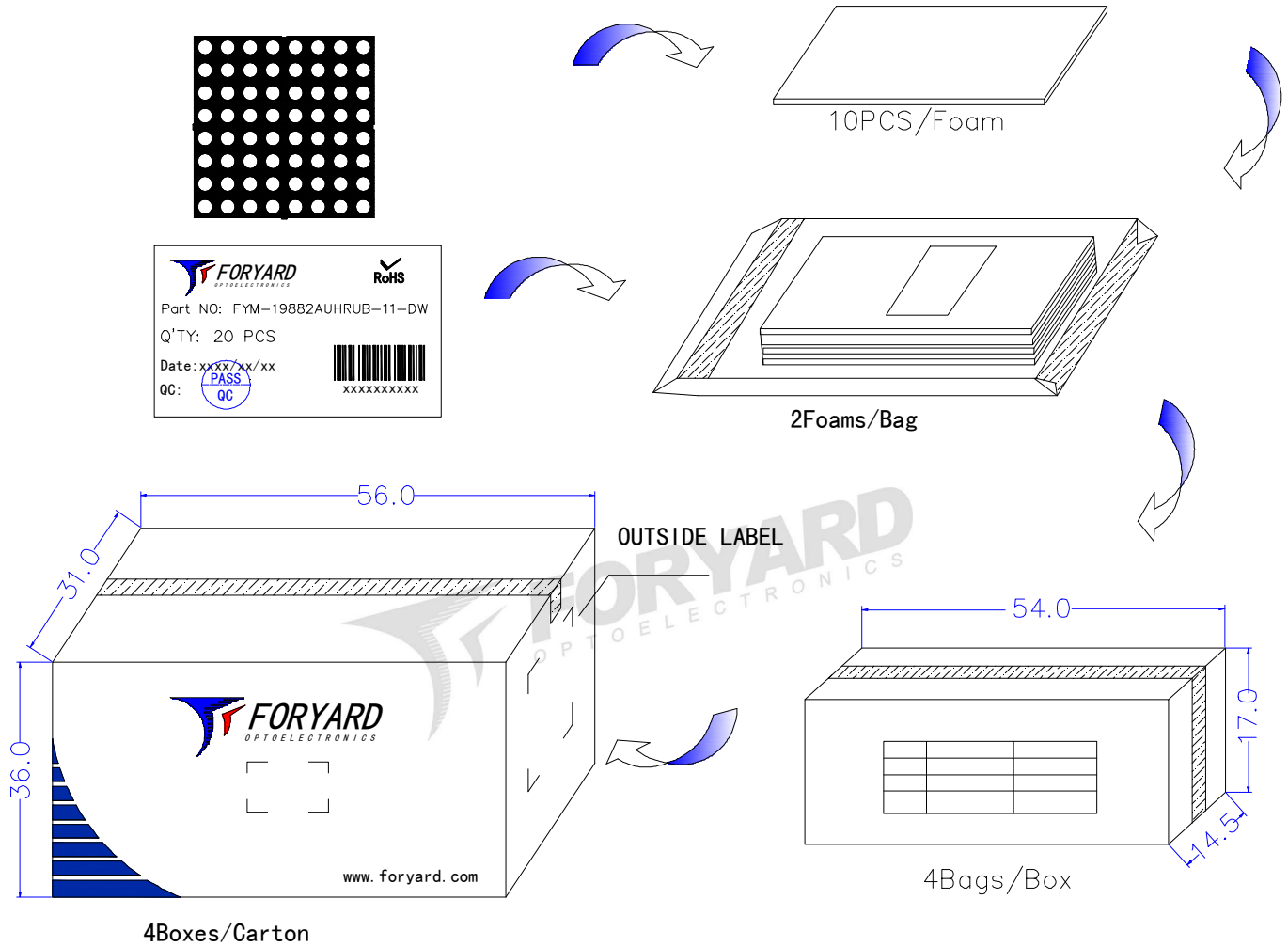
Basic SPEC. is ≤ 5 sec. When 260°C . If temperature is higher, time should be shorter ($+10^{\circ}\text{C} \rightarrow -1$ sec.).

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

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

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■ Packing Diagram





LED

PN: FYM-19882AUHRUB-11-DW

Qty: 320 PCS

Date: xxxx/xx/xx

GW: 22KG QC: 

NW: 20KG



XXXXXXXXXX




OUTSIDE LABEL

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

Spec. No.	FYM-19882AUHRUB-11-DW-C
Rev.	C

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■ 修改记录

日期	修改内容	工程师	版本
2018-3-12	修改发光腔大小 4.00mm 改为 4.80mm	华科冬	C