




# PRODUCT SPECIFICATION

**Model No.: FYA-T7547ZX-11**

Descriptions:
<ul style="list-style-type: none"> <li>■ Bargraph Digit Display</li> <li>■ Diameter:73.80*47.40mm</li> <li>■ Black Face</li> <li>■ White Segment</li> </ul> 



CUSTOMER APPROVED SIGNATURES	APPROVED BY	SALES BY	PREPARED BY
			

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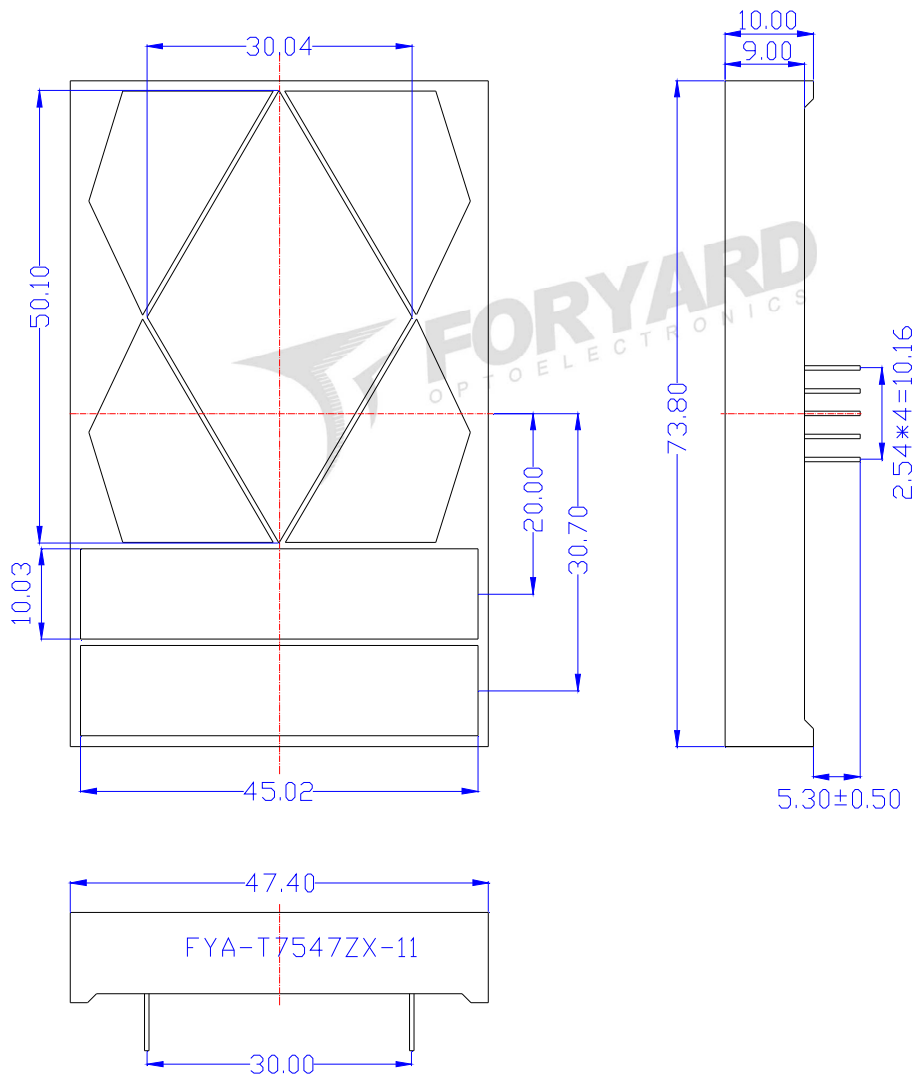
**Http://**www.foryard.com

**Model No.: FYA-T7547ZX-11**

**Features -**

1. 2.00 inch (50.10mm) 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 -**

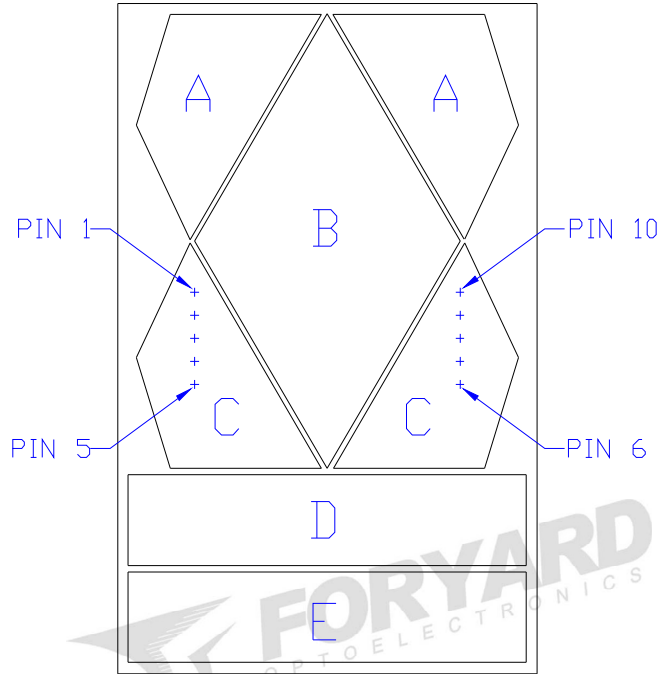


**Notes:**

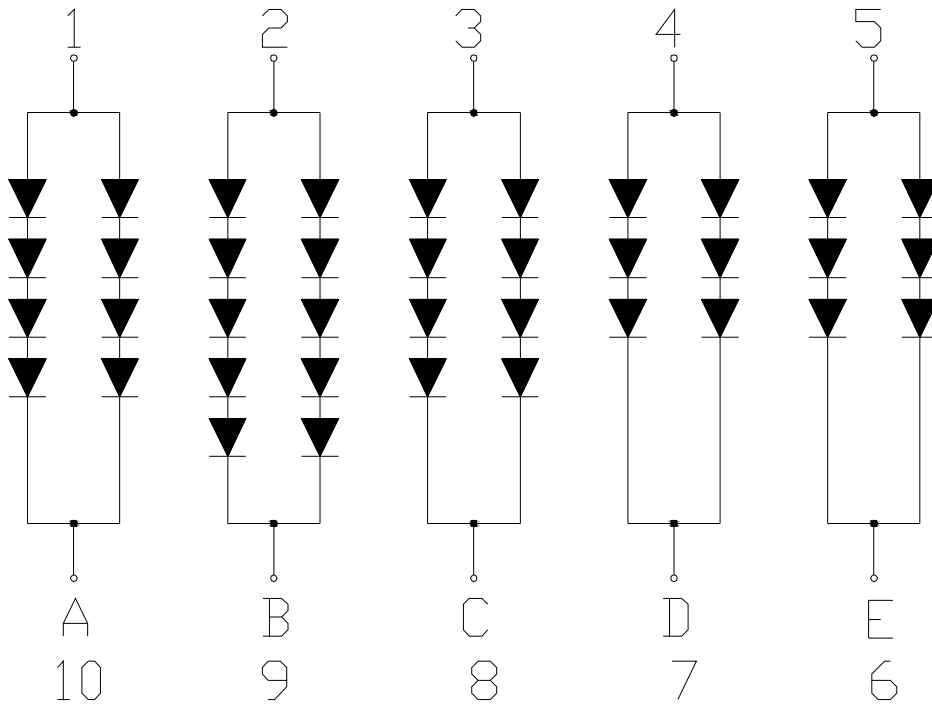
1. All pins are  $\Phi 0.50 [ .020 ]$  mm
2. Dimension in millimeter [inch], tolerance is  $\pm 0.25 [ .010 ]$  and angle is  $\pm 1^\circ$  unless otherwise noted.
3. Bending  $\leq$  Length \* 1%.
4. The specifications, characteristics and technical data described in the datasheet are subject to change 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( $\lambda_p$ )	Spectral Line halfwidth( $\Delta\lambda/2$ )	Forward Voltage(VF) Unit:V		Luminous Intensity (Iv) Unit:mcd
					Typ	Max	
PG	Pure Green	InGaN	520nm	36nm	2.80	3.80	260-310
UHR	Ultra Hi Red	AlGaInP	640nm	20nm	1.90	2.50	30~60
UR	Ultra Red	AlGaInP	635nm	20nm	1.90	2.50	60~100
UA	Ultra Amber	AlGaInP	610nm	20nm	1.90	2.50	40~100~150
UY	Ultra Yellow	AlGaInP	590nm	20nm	1.90	2.50	50~140~190
UG	Ultra Green	AlGaInP	570nm	30nm	1.90	2.50	30~60~80
UB	Ultra Blue	InGaN	460nm	30nm	2.80	3.80	80~90~120
			470nm	30nm	2.80	3.80	80~90~120
UW	Ultra White	InGaN	X=0.29,Y=0.30	CCT:9500K	2.80	3.80	180~200
Segment-to-Segment Luminous Intensity ratio(Iv-M)						1.5:1	

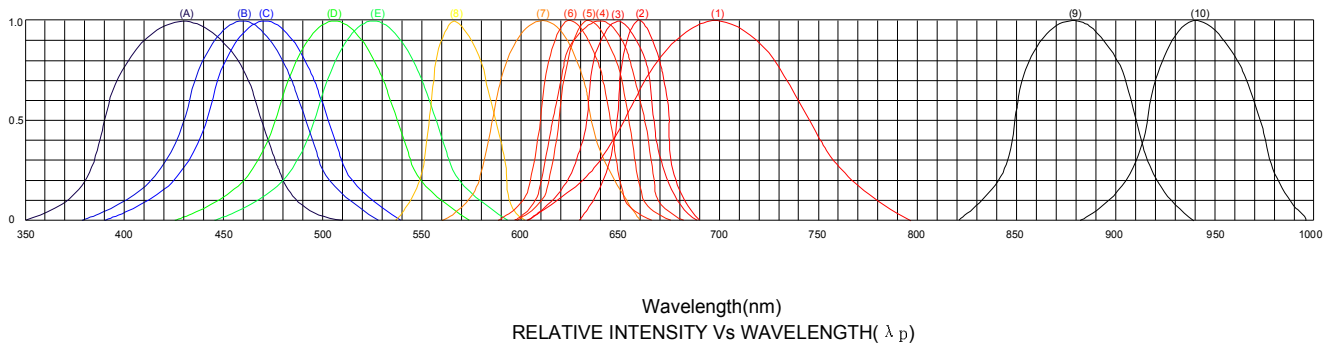
Note:

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

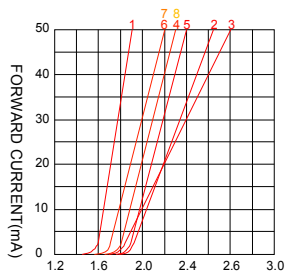
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**Typical Electrical / Optical Characteristics Curves**

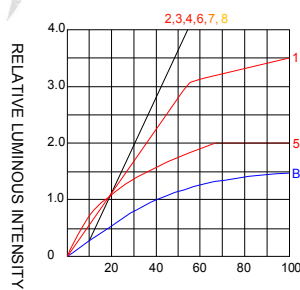
(Ta = 25°C Unless Otherwise Noted)



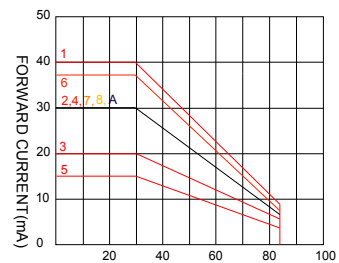
- |                                |                                    |
|--------------------------------|------------------------------------|
| (1)-GaP 700nm/Red              | (9)-GaAlAs 880nm                   |
| (2)-AlGaAs/SH 660nm/Hi Red     | (10)-GaAs/GaAs & GaAlAs/GaAs 940nm |
| (3)-AlGaAs/DH 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     |                                    |



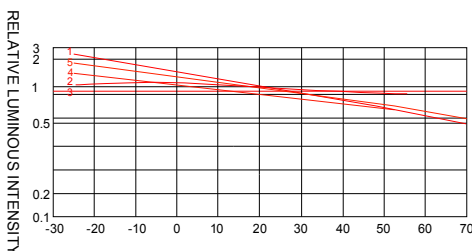
**FORWARD VOLTAGE(Vf)**  
FORWARD CURRENT VS.  
FORWARD VOLTAGE



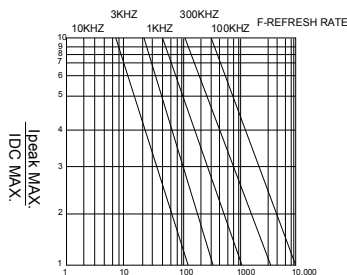
**FORWARD CURRENT (mA)**  
RELATIVE LUMINOUS  
INTENSITY VS FORWARD  
CURRENT



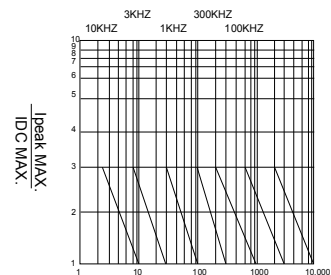
**AMBIENT TEMPERATURE Ta(°C)**  
FORWARD CURRENT VS. AMBIENT  
TEMPERATURE



**AMBIENT TEMPERATURE  
Ta(°C)**



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



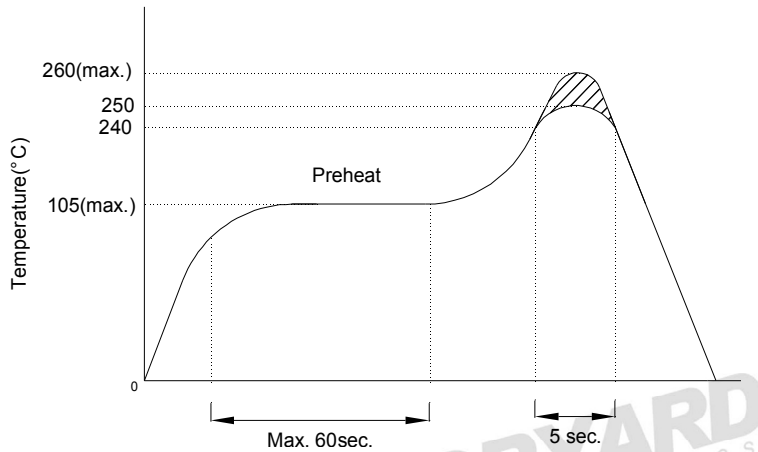
**tp-PULSE DURATION μs**  
(5)

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**

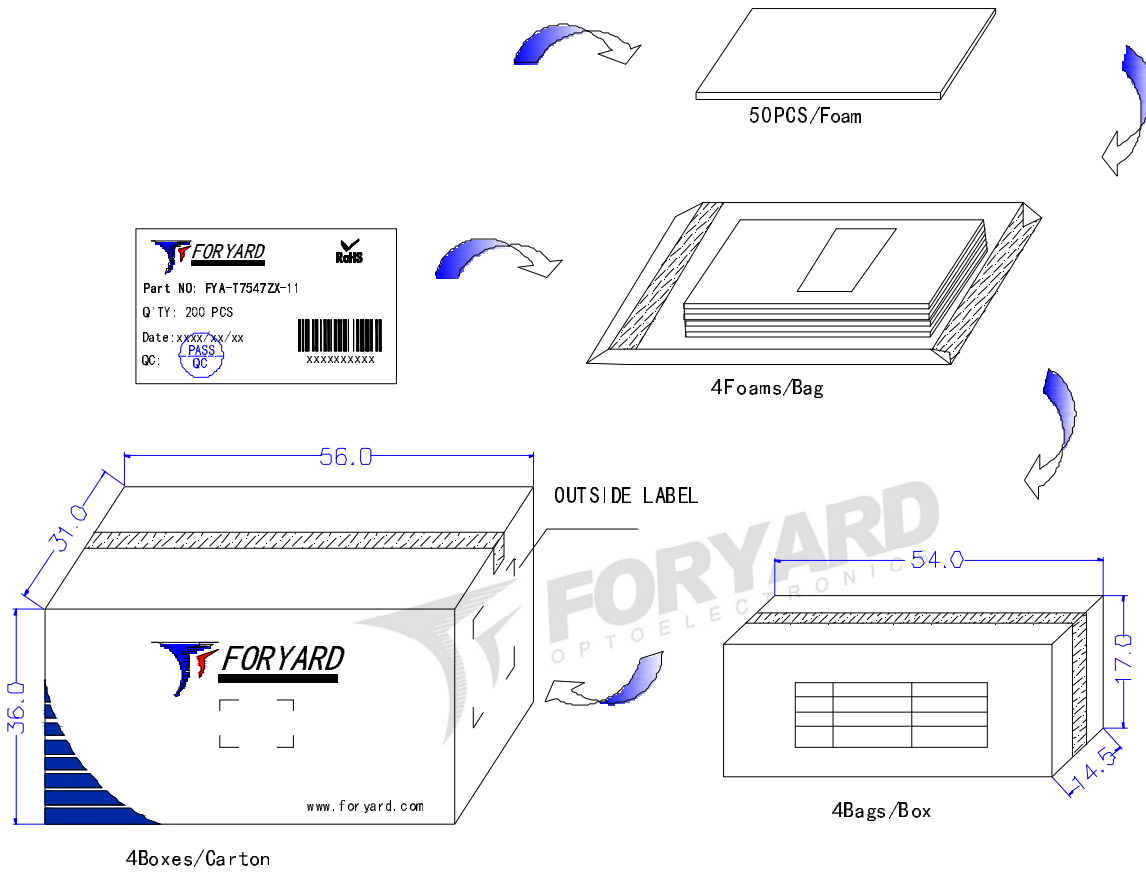
Basic SPEC. is  $\leq 5$ sec. When  $260^{\circ}\text{C}$ . If temperature is higher, time should be shorter ( $+10^{\circ}\text{C} \rightarrow -1$ sec.).

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

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

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**■ Packing Diagram**




**FORYARD**

**LED**

PN: FYA-T7547ZX-11

Qty: 1600 PCS

Date: xxx/xx/xx

GW: XXKG      QC: PASS

NW: XXKG

Barcode: xxxxxxxxx

RoHS      ATTENTION

OUTSIDE LABEL

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