



NINGBO FORYARD OPTO  
ELECTRONICS CO.,LTD.

# LED DIGIT DISPLAY

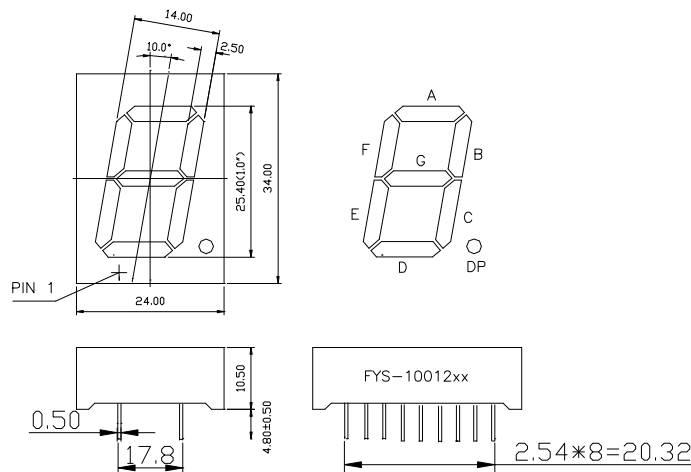
PartNO.: FYS-10012C/DXX-XX

## DESCRIPTION

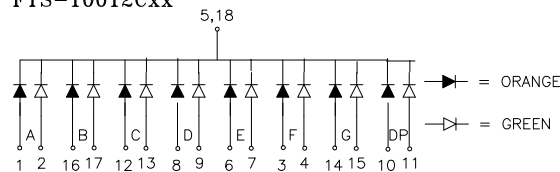
- 26.00mm (1.0") Single digit numeric display series.
- Standard brightness.
- Low current operation.
- Excellent character appearance.
- Easy mounting on P.C.boards or sockets

## Package Dimensions & Internal Circuit Diagram

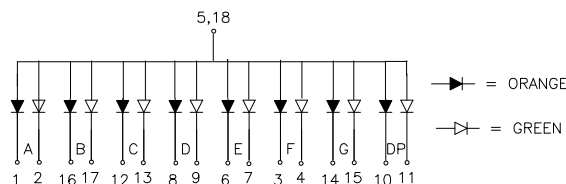
FYS-10012 Series



FYS-10012Cxx



FYS-10012Dxx



### Notes:

- All dimensions are in millimeters (inches)
- Tolerance is  $\pm 0.25(0.01)$  unless otherwise noted.
- Specifications are subject to change without notice.

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: Absolute maximum ratings (Ta=25℃)

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

■ Description:

• Color Code & Chip characteristics: (Test Condition: IF=20mA)

| Emitting Color |           | Dice Material   | Peak Wave Length (λp) | Spectral Line halfwidth(Δλ1/2) | Forward Voltage(VF)<br>Unit:V |      | Luminous Intensity (Iv)<br>Unit:ucd |
|----------------|-----------|-----------------|-----------------------|--------------------------------|-------------------------------|------|-------------------------------------|
|                |           |                 |                       |                                | Typ                           | Max  |                                     |
| H              | Red       | GaP/GaP         | 700nm                 | 90nm                           | 2.25                          | 2.50 | 500                                 |
| S              | Hi Red    | GaAlAs/GaAs,SH  | 660nm                 | 20nm                           | 1.85                          | 2.20 | 3500                                |
| D              | Super Red | GaAlAs/GaAs,DH  | 660nm                 | 20nm                           | 1.85                          | 2.20 | 6000                                |
| UR             | Ultra Red | GaAlAs/GaAs,DDH | 660nm                 | 20nm                           | 1.85                          | 2.20 | 12000                               |
| E              | Orange    | GaAsP/GaP       | 635nm                 | 35nm                           | 2.10                          | 2.50 | 2500                                |
| Y              | Yellow    | GaAsP/GaP       | 585nm                 | 35nm                           | 2.10                          | 2.50 | 2000                                |
| G              | Green     | GaP/GaP         | 570nm                 | 30nm                           | 2.20                          | 2.50 | 2500                                |

• -XX: Surface / Lens color:

| Number            | 0           | 1              | 2            | 3              | 4               | 5 |
|-------------------|-------------|----------------|--------------|----------------|-----------------|---|
| Ref Surface Color | White       | Black          | Gray         | Red            | Green           |   |
| Epoxy Color       | Water clear | White diffused | Red Diffused | Green Diffused | Yellow Diffused |   |



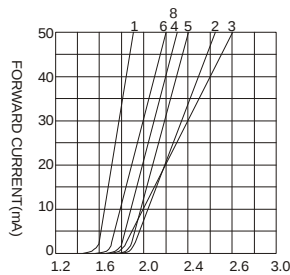
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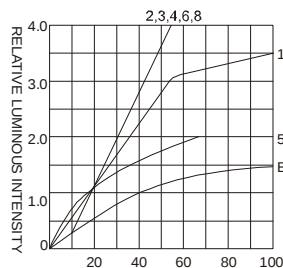
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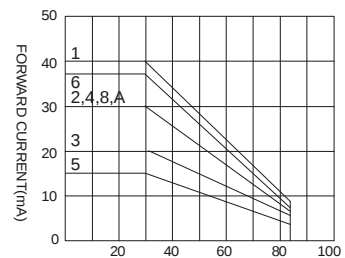
- |                                           |                                      |
|-------------------------------------------|--------------------------------------|
| (1) - GaAsP/GaAs 655nm/Red                | (9) - GaAlAs 880nm                   |
| (2) - GaP 570nm/Yellow Green              | (10) - GaAs/GaAs & GaAlAs/GaAs 940nm |
| (3) - GaAsP/GaP 585nm/Yellow              | (A) - GaN/SiC 430nm/Blue             |
| (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red | (B) - InGaN/SiC 470nm/Blue           |
| (5) - GaP 700nm/Bright Red                | (C) - InGaN/SiC 505nm/Ultra Green    |
| (6) - GaAlAs/GaAs 660nm/Super Red         | (D) - InGaAl/SiC 525nm/Ultra Green   |
| (8) - GaAsP/GaP 610nm/Super Red           |                                      |



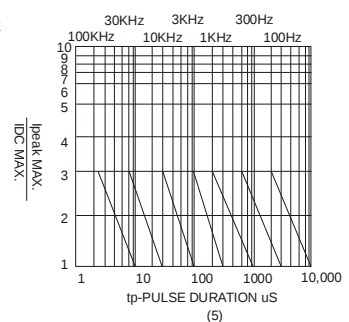
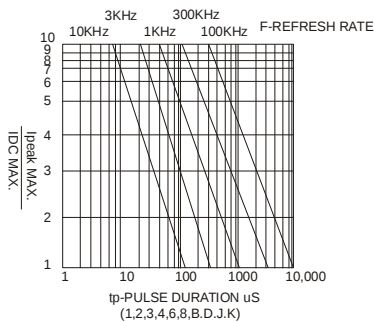
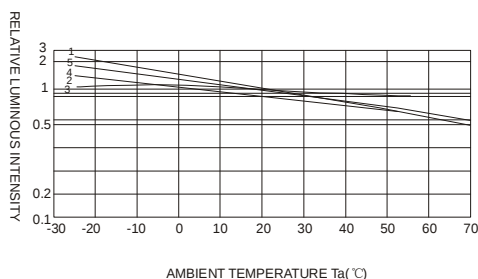
FORWARD VOLTAGE (V)  
FORWARD CURRENT VS.  
FORWARD VOLTAGE



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



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



NOTE: 25°C free air temperature unless otherwise specified

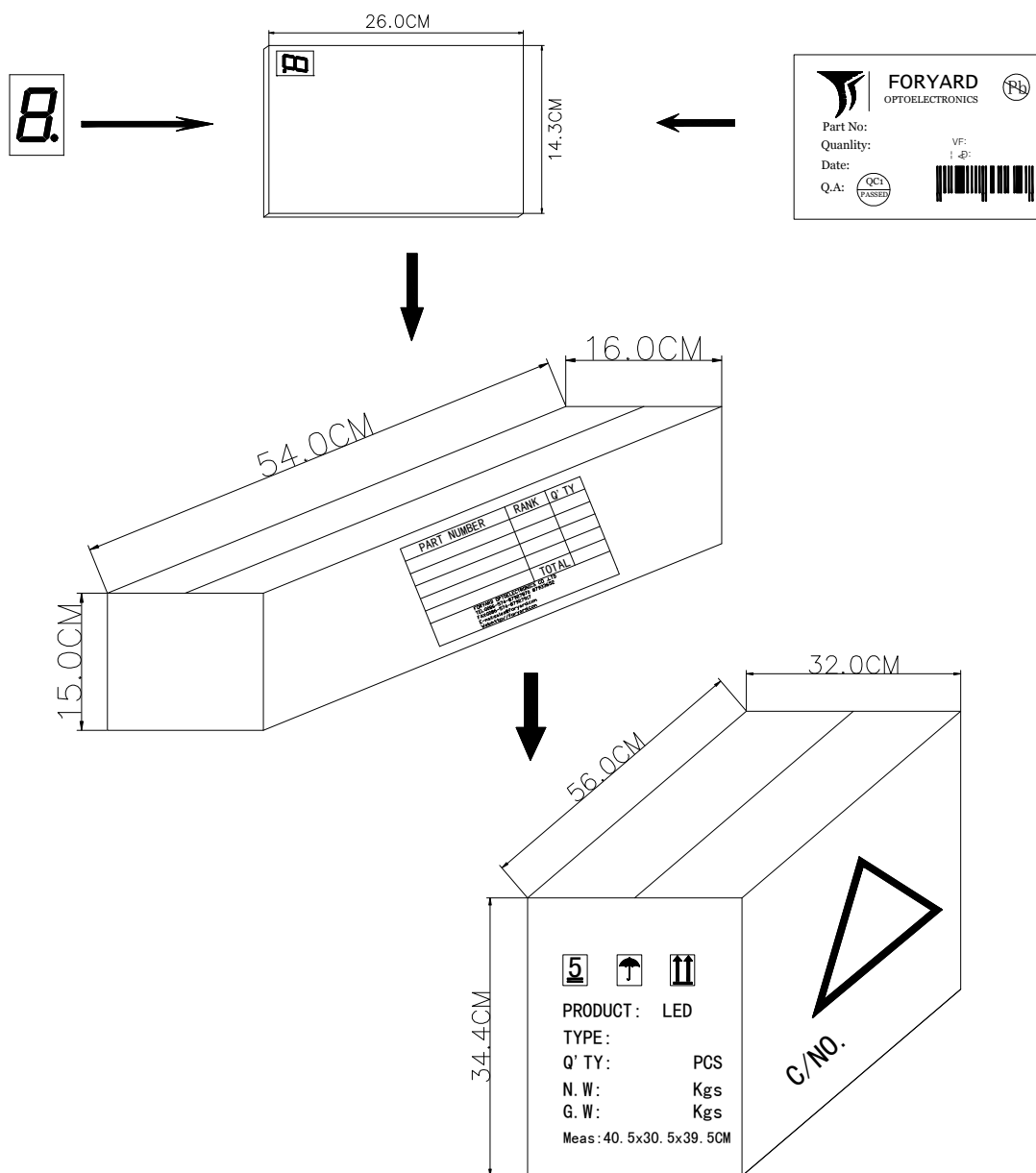
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| tapy              | QTY/foam(pcs) | QTY /Bundle (pcs) | QTY /CARTONDimension |
|-------------------|---------------|-------------------|----------------------|
| FYS-10012C/Dxx-xx | 4*10=40       | 40*16=640         | 640*4=2560           |
|                   |               |                   |                      |
|                   |               |                   |                      |

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