

PRODUCT SPECIFICATION

Model No.: GD5022E/FX-X-12

| Descriptions & Features: |
|---|
| <ul style="list-style-type: none"> ■ 0.5 Inch (12.70mm) digit height Double Digit Display ■ Case mold type. ■ RoHS compliant. ■ Low current operation ■ Low power consumption. ■ Easy mounting on P.C. board or socket. |



| CUSTOMER APPROVED SIGNATURES | APPROVED BY | CHECKED BY | PREPARED BY |
|------------------------------|-------------|------------|-------------|
| | | | |

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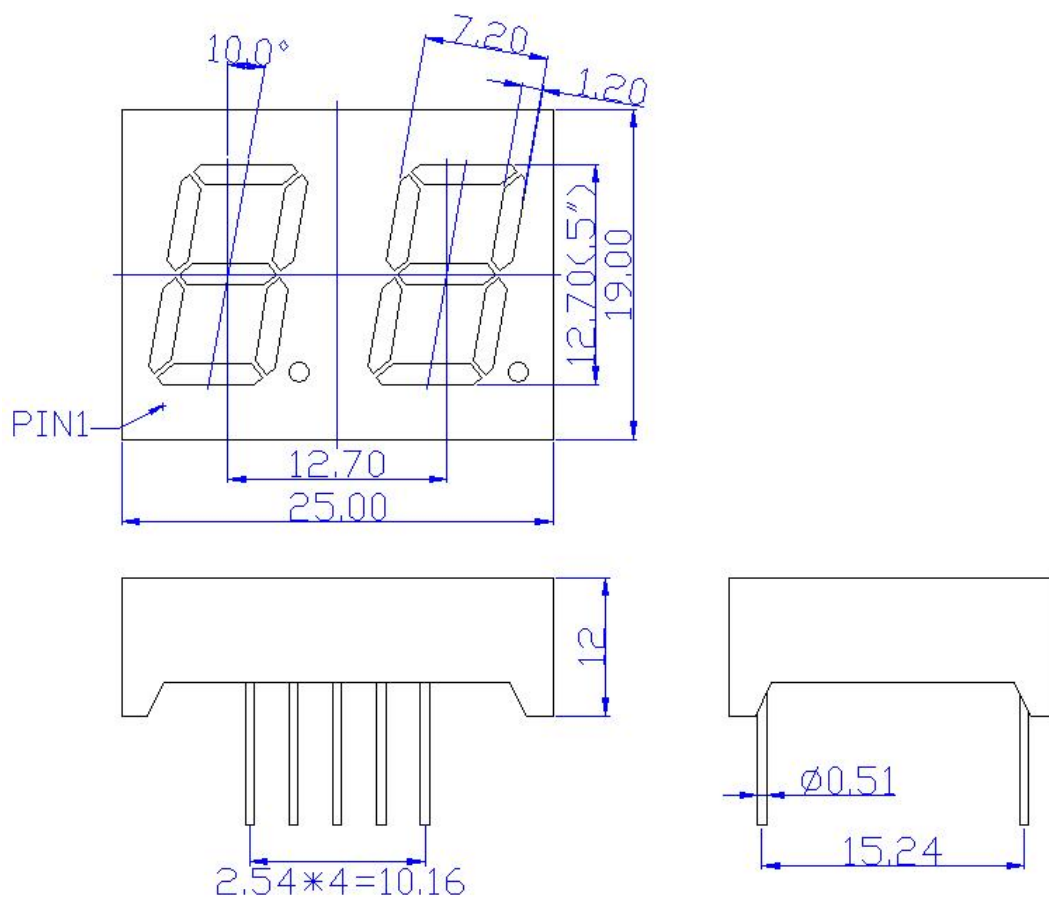
E-mail: Sales@smddisplay.com (General)

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■ -X: REF Surface

| Color | Numbe | 1 | 2 |
|-------------------|-------|-----------------------------|----------------------------|
| REF Surface Color | | <input type="radio"/> Black | <input type="radio"/> Gray |

■ Mechanical Dimensions

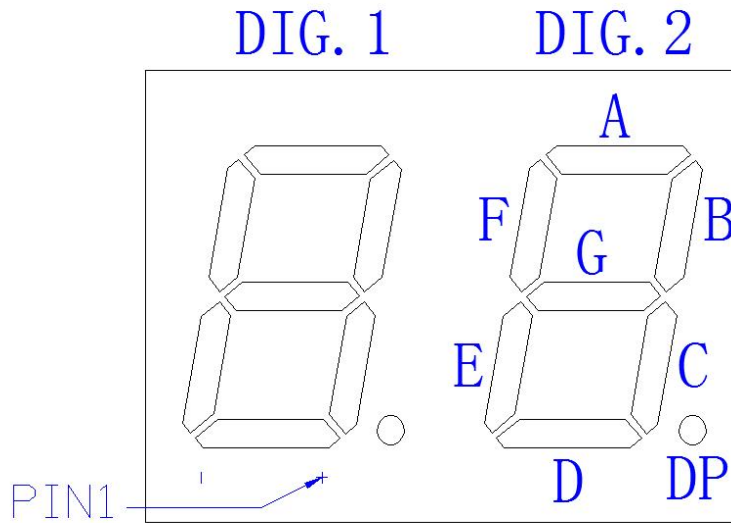


Notes:

1. All pins are $\Phi 0.45$ [0.019]mm
2. Dimension in millimeter [inch], tolerance is ± 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.
5. The drawing is different from the actual one, please refer to the sample.

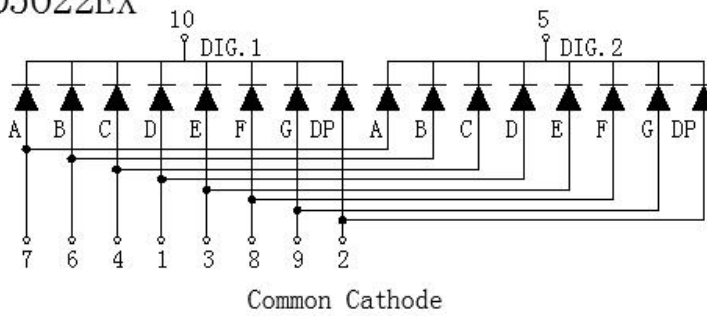
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■ All Light On Segments Feature & Pin Position

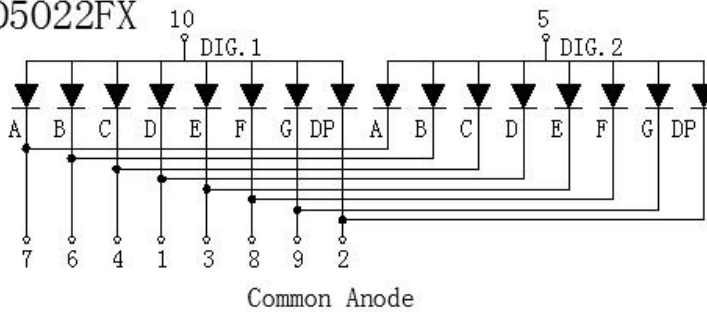


■ Internal Circuit Diagrams

GD5022EX



GD5022FX



GD5022A/B GD5022U/V 亦可用

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■ Absolute maximum ratings

(Ta=25℃)

| 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 | ℃ |
| Storage Temperature | Tstr | — | -40 | +85 | ℃ |

■ Electrical-Optical Characteristics

● Color Code & Chip Characteristics:(Test Condition:IF=10mA)

(Ta=25℃)

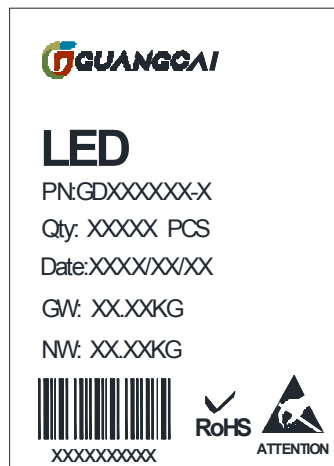
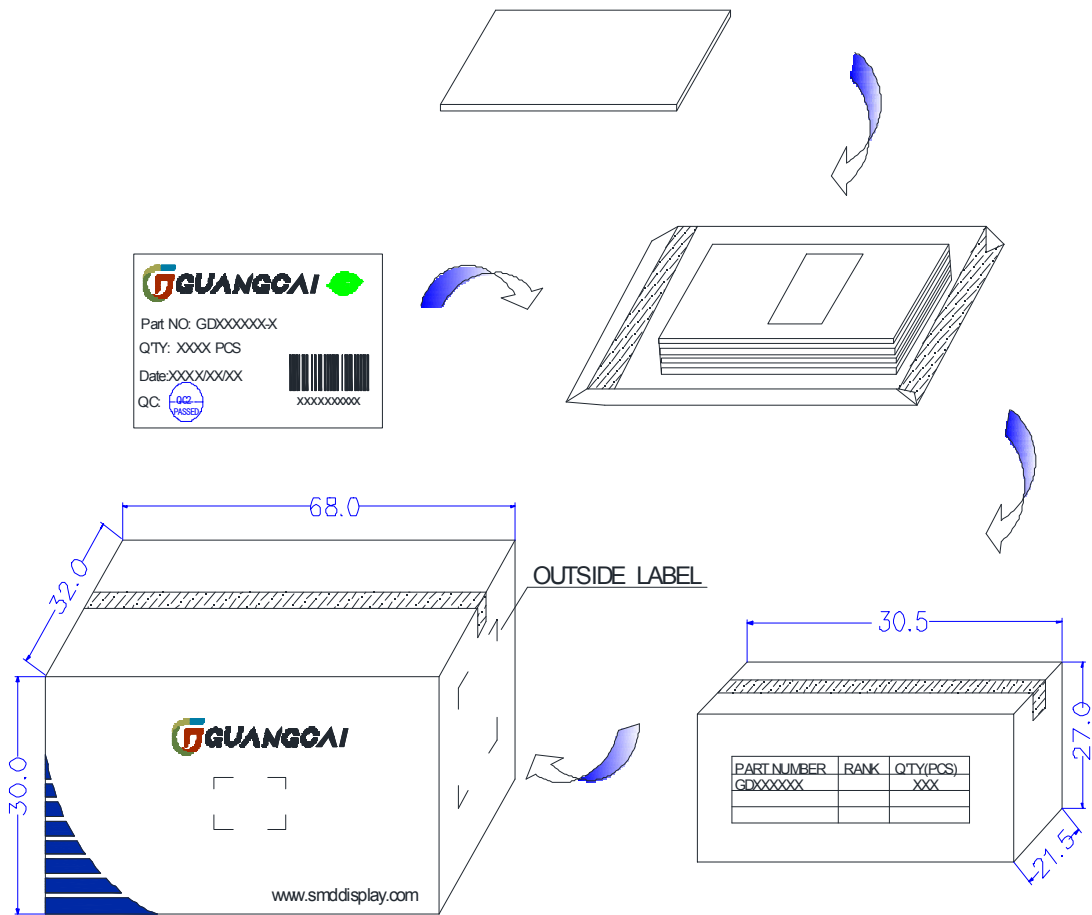
| Emitting Color | Dice Material | Peak Wave Length(λ_p) | Dominant Wavelength(λ_d) | Spectral Line halfwidth ($\Delta\lambda_{1/2}$) | Forward Voltage(VF) Unit:V | | Luminous Intensity (Iv) Unit:mcd | |
|---|---------------|---------------------------------|------------------------------------|---|----------------------------|------|----------------------------------|------------|
| | | | | | Typ | Max | | |
| Ultra brightness | | | | | | | | |
| R | Red | AlGaInP | 660nm | 645nm | 20nm | 2.00 | 2.50 | 20~50 |
| SR | Orange | AlGaInP | 632nm | 625nm | 20nm | 2.00 | 2.50 | 40~85 |
| A | Amber | AlGaInP | 612nm | 605nm | 20nm | 2.00 | 2.50 | 30~105 |
| Y | Yellow | AlGaInP | 592nm | 590nm | 20nm | 2.00 | 2.50 | 30~135 |
| G | Yellow Green | AlGaInP | 572nm | 570nm | 30nm | 2.00 | 2.50 | 20~60 |
| PG | Pure Green | InGaN | * | 520nm | 36nm | 3.00 | 3.80 | 350~450 |
| B | Blue | InGaN/GaN | * | 460nm | 30nm | 3.00 | 3.80 | 120~180 |
| W | White | InGaN/GaN | X=0.29,Y=0.30 | CCT:9500K | | 3.00 | 3.80 | 60~120~180 |
| Segment-to-Segment Luminous Intensity ratio(Iv-M) | | | | | 1.5:1 | | | |

Note:

1.Luminous Intensity is based on the Guangcai standards.

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■ Packing Diagram



OUTSIDE LABEL