

KM-27YD-03

YELLOW

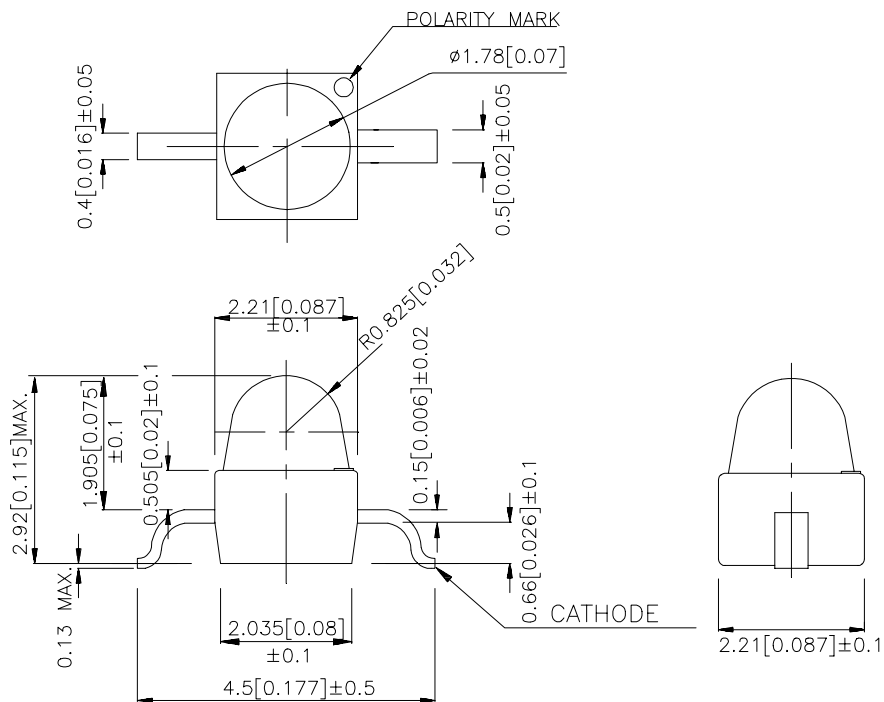
### Features

- SUBMINIATURE PACKAGE.
- GULL WING.
- LONG LIFE - SOLID STATE RELIABILITY.
- LOW PACKAGE PROFILE.
- PACKAGE :1000PCS / REEL.

### Description

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

### Package Dimensions



#### Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25(0.01")$  unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subject to change without notice.

## Selection Guide

| Part No.   | Dice              | Lens Type       | Iv (mcd)<br>@ 20 mA |      | Viewing<br>Angle |
|------------|-------------------|-----------------|---------------------|------|------------------|
|            |                   |                 | Min.                | Typ. | θ1/2             |
| KM-27YD-03 | YELLOW(GaAsP/GaP) | YELLOW DIFFUSED | 2.6                 | 10   | 40°              |

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

## Electrical / Optical Characteristics at T<sub>A</sub>=25°C

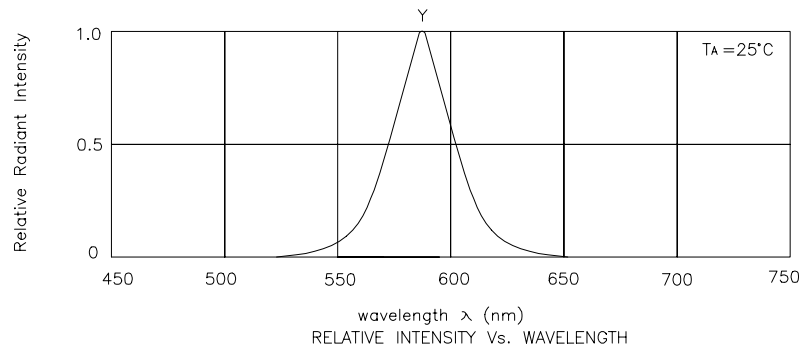
| Symbol            | Parameter                | Device | Typ. | Max. | Units | Test Conditions           |
|-------------------|--------------------------|--------|------|------|-------|---------------------------|
| λ <sub>peak</sub> | Peak Wavelength          | Yellow | 590  |      | nm    | I <sub>F</sub> =20mA      |
| λ <sub>D</sub>    | Dominate Wavelength      | Yellow | 588  |      | nm    | I <sub>F</sub> =20mA      |
| Δλ <sub>1/2</sub> | Spectral Line Half-width | Yellow | 35   |      | nm    | I <sub>F</sub> =20mA      |
| C                 | Capacitance              | Yellow | 20   |      | pF    | V <sub>F</sub> =0V;f=1MHz |
| V <sub>F</sub>    | Forward Voltage          | Yellow | 2.1  | 2.5  | V     | I <sub>F</sub> =20mA      |
| I <sub>R</sub>    | Reverse Current          | Yellow |      | 10   | uA    | V <sub>R</sub> =5V        |

## Absolute Maximum Ratings at T<sub>A</sub>=25°C

| Parameter                     | Yellow         | Units |
|-------------------------------|----------------|-------|
| Power dissipation             | 105            | mW    |
| DC Forward Current            | 30             | mA    |
| Peak Forward Current [1]      | 140            | mA    |
| Reverse Voltage               | 5              | V     |
| Operating/Storage Temperature | -40°C To +85°C |       |

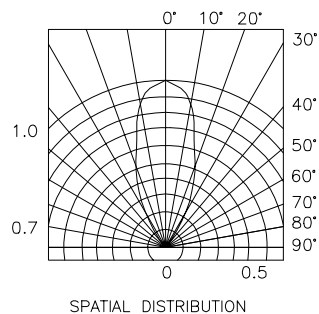
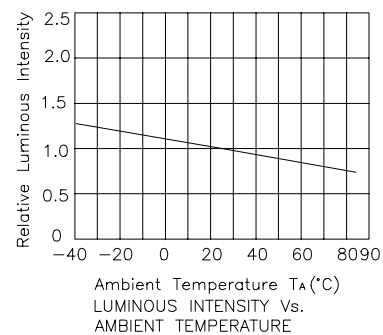
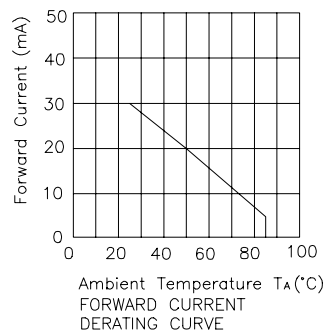
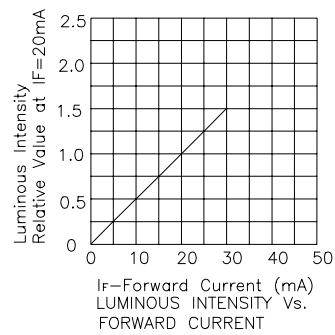
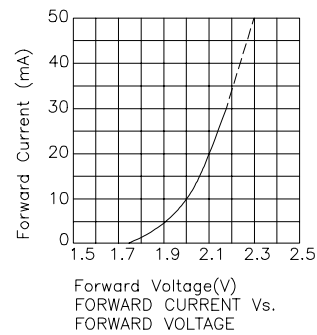
Note:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.



Yellow

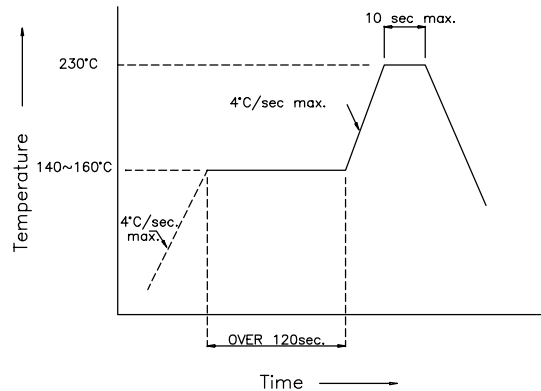
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## KM-27YD-03

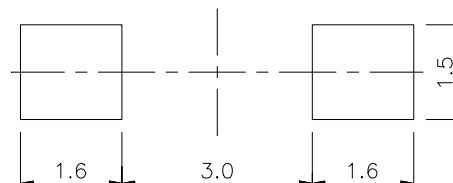
### SMT Reflow Soldering Instructions

Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.



### Recommended Soldering Pattern

(Units : mm)



### Tape Specifications

(Units : mm)

