

AM27YD09

## YELLOW

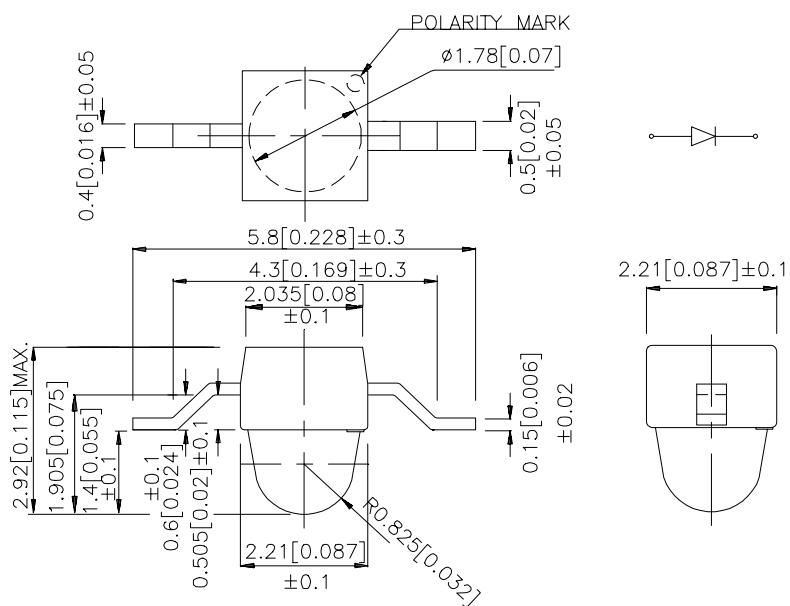
## Features

- SUBMINIATURE PACKAGE.
  - WIDE VIEWING ANGLE.
  - Z-BEND LEAD.
  - 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:

- 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	I <sub>V</sub> (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	
AM27YD09	YELLOW (GaAsP/GaP)	YELLOW DIFFUSED	2.6	10	40°

Note:

1. 01/2 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

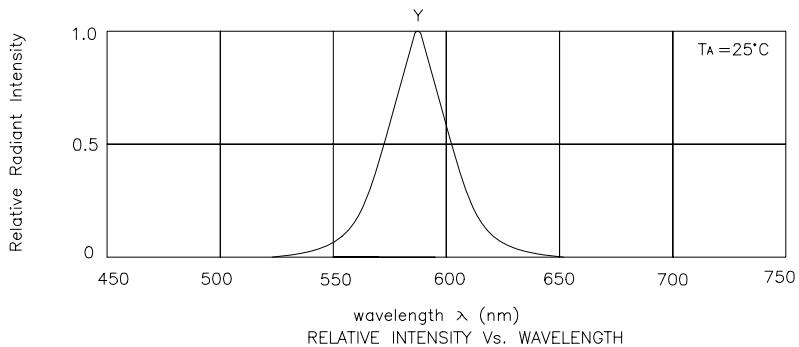
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ <sub>peak</sub>	Peak Wavelength	Yellow	590		nm	I <sub>F</sub> =20mA
λ D	Dominate Wavelength	Yellow	588		nm	I <sub>F</sub> =20mA
Δλ1/2	Spectral Line Half-width	Yellow	35		nm	I <sub>F</sub> =20mA
C	Capacitance	Yellow	20		pF	V <sub>F</sub> = 0V; 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	

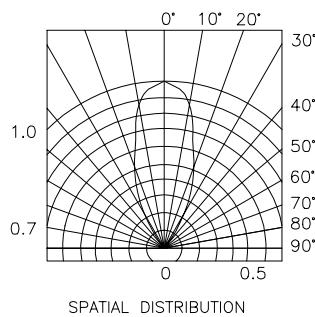
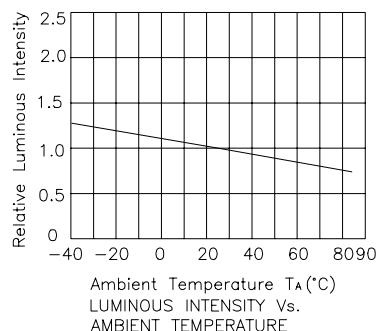
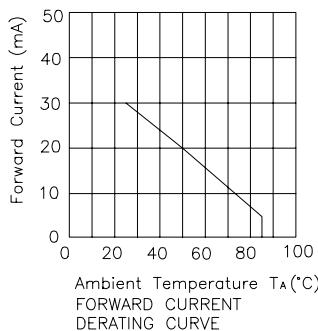
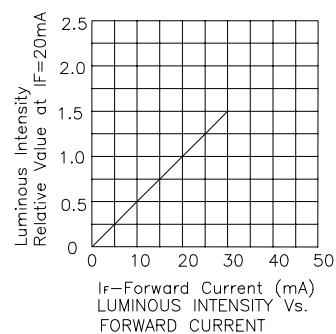
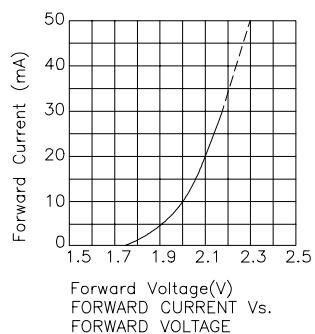
Note:

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



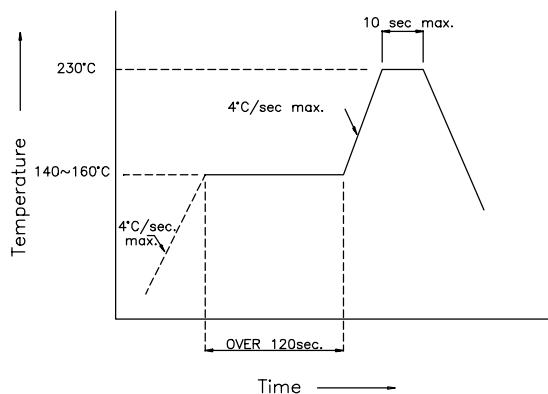
Yellow

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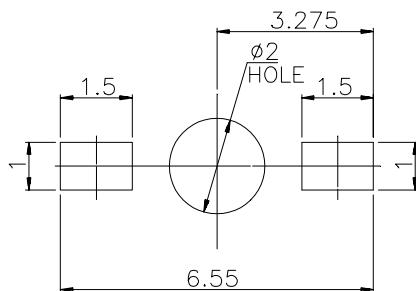


## AM27YD09 SMT Reflow Soldering Instructions

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)

