

AM27YD10 YELLOW

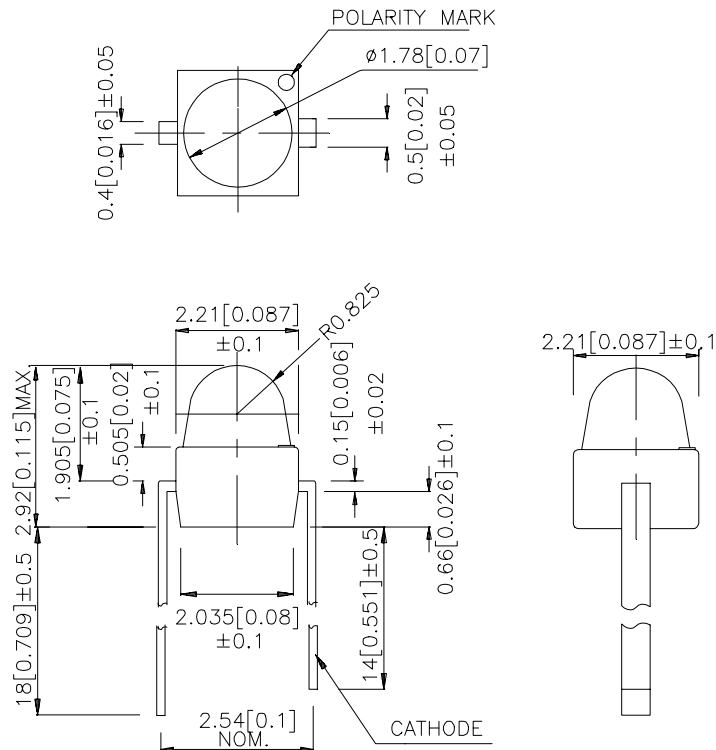
Features

- SUBMINIATURE PACKAGE.
- WIDE VIEWING ANGLE.
- RIGHT ANGLE BEND.
- LONG LIFE SOLID STATE RELIABILITY.
- LOW PACKAGE PROFILE.

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	I _v (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	θ _{1/2}
AM27YD10	YELLOW(GaAsP/GaP)	YELLOW DIFFUSED	2.6	10	40°

Note:

1. θ_{1/2} is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at T_A=25°C

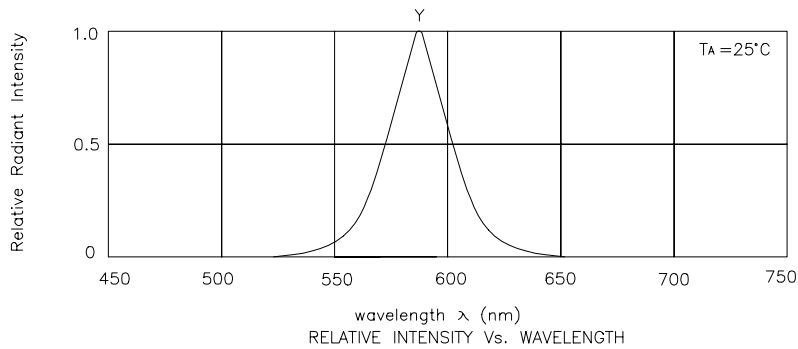
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	Yellow	590		nm	I _F = 20mA
λ _D	Dominate Wavelength	Yellow	588		nm	I _F = 20mA
Δλ _{1/2}	Spectral Line Half-width	Yellow	35		nm	I _F = 20mA
C	Capacitance	Yellow	20		pF	V _F = 0V; f = 1MHz
V _F	Forward Voltage	Yellow	2.1	2.5	V	I _F = 20mA
I _R	Reverse Current	Yellow		10	μA	V _R = 5V

Absolute Maximum Ratings at T_A=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	
Lead Solder Temperature [2]	260°C For 5 Seconds	

Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.



Yellow

AM27YD10

