

AM2520EF/4ID5V

AM2520EF/4SGD5V

AM2520EF/4YD5V

## Features

- HIGH RELIABILITY
- BLACK CASE ENHANCES CONTRAST.
- VIBRATION AND SHOCK RESISTANT.
- AVAILABLE WITH A VARIETY OF LEDs.
- 5V INTERNAL RESISTOR.
- UL RATING : 94V-0.
- HOUSING MATERIAL: TYPE 66 NYLON.

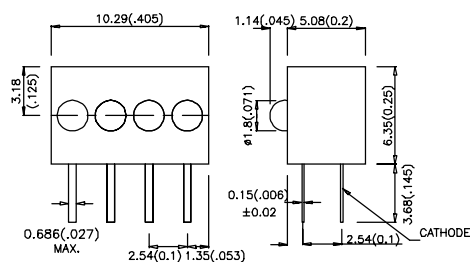
### Description

The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

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 subjected to change without notice.

## Selection Guide

Part No.	Dice	Lens Type	I <sub>v</sub> (mcd) V=5V		Viewing Angle
			Min.	Typ.	2θ1/2
AM2520EF/4ID5V	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	3	8	60°
AM2520EF/4SGD5V	SUPER BRIGHT GREEN (GaP)	GREEN DIFFUSED	2	4	60°
AM2520EF/4YD5V	YELLOW (GaAsP/GaP)	YELLOW DIFFUSED	2	3	60°

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

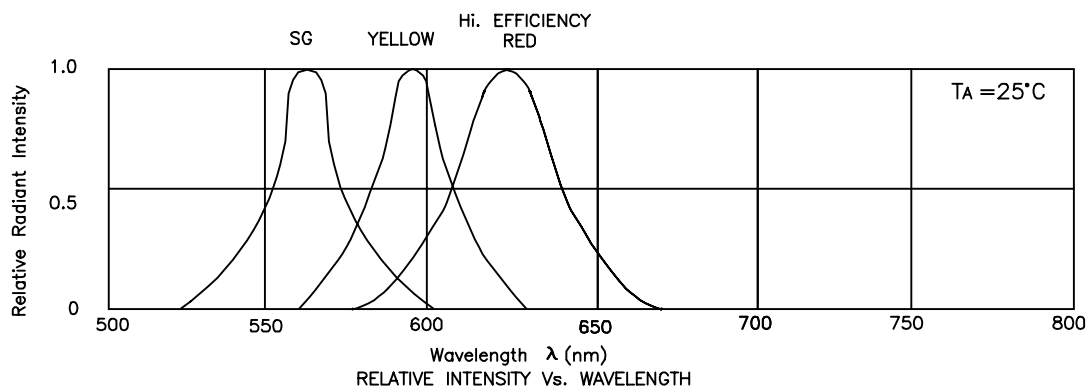
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ <sub>peak</sub>	Peak Wavelength	High Efficiency Red Super Bright Green Yellow	625 565 590		nm	IF=20mA
Δλ1/2	Spectral Line Halfwidth	High Efficiency Red Super Bright Green Yellow	45 30 35		nm	IF=20mA
I <sub>F</sub>	Forward Current	High Efficiency Red Super Bright Green Yellow	12 12 12		mA	VF=5V
I <sub>R</sub>	Reverse Current	All		10	uA	VR = 5V

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

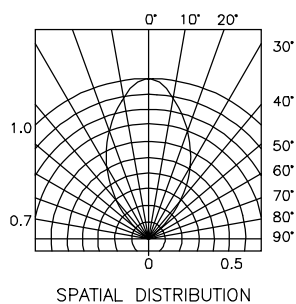
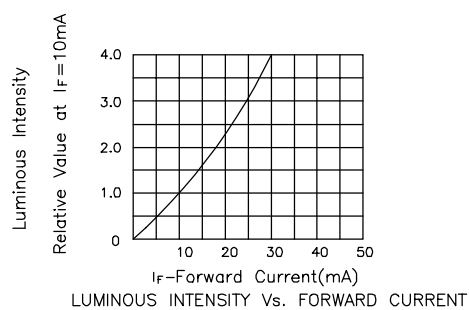
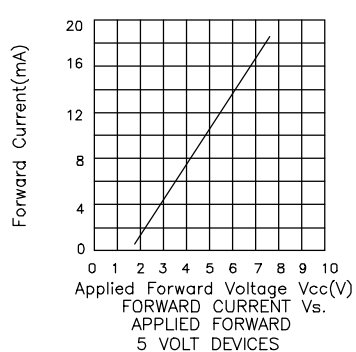
Parameter	High Efficiency Red	Super Bright Green	Yellow	Units
Power dissipation	310	310	310	mW
Peak Forward Current [1]	150	150	150	mA
Reverse Voltage	5	5	5	V
Operating/Storage Temperature	-40°C To +85°C			
Lead Soldering Temperature [2]	260°C For 5 Seconds			

Notes:

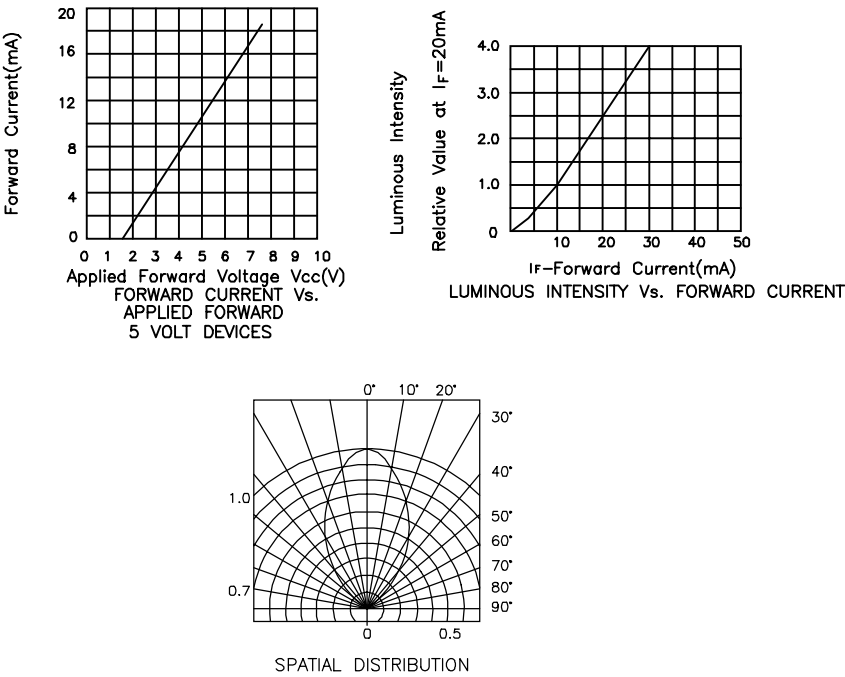
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 4mm below package base.



## High Efficiency Red AM2520EF/4ID5V



Super Bright Green AM2520EF/4SGD5V



Yellow AM2520EF/4YD5V

