

Part Number: AM2520EJ/ID5V

High Efficiency Red

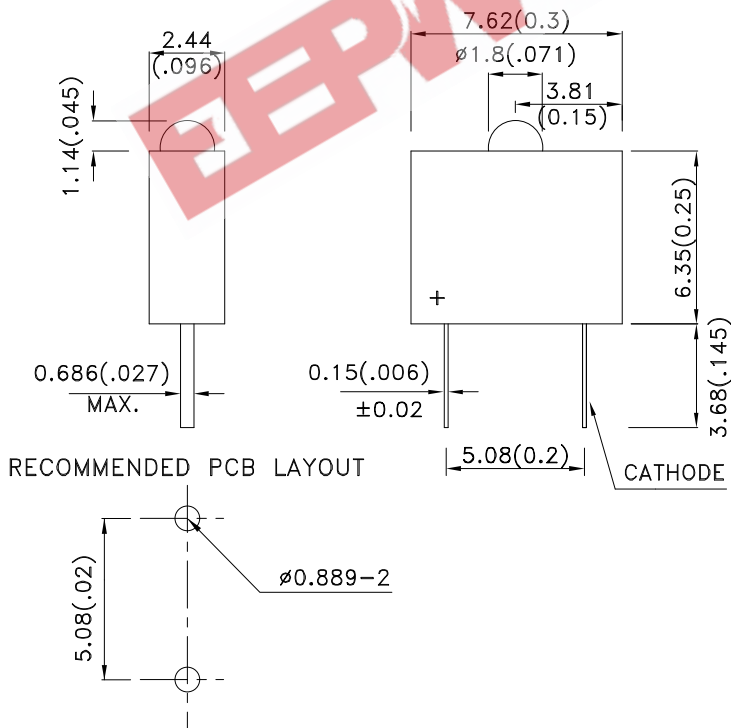
### Features

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

### Description

The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange 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 leads emerge from the package.
4. Specifications are subject to change without notice.



## Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] V= 5V		Viewing Angle [1]
			Min.	Typ.	2θ1/2
AM2520EJ/ID5V	High Efficiency Red (GaAsP/GaP)	RED DIFFUSED	1.8	8	40°

Notes:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. Luminous intensity/ luminous Flux: +/-15%.

## Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ <sub>peak</sub>	Peak Wavelength	High Efficiency Red	627		nm	V <sub>F</sub> =5V
λ <sub>D</sub> [1]	Dominant Wavelength	High Efficiency Red	625		nm	V <sub>F</sub> =5V
Δλ <sub>1/2</sub>	Spectral Line Half-width	High Efficiency Red	45		nm	V <sub>F</sub> =5V
I <sub>F</sub>	Forward Current	High Efficiency Red	13	17.5	mA	V <sub>F</sub> =5V
I <sub>R</sub>	Reverse Current	High Efficiency Red		10	μA	V <sub>R</sub> = 5V

Note:

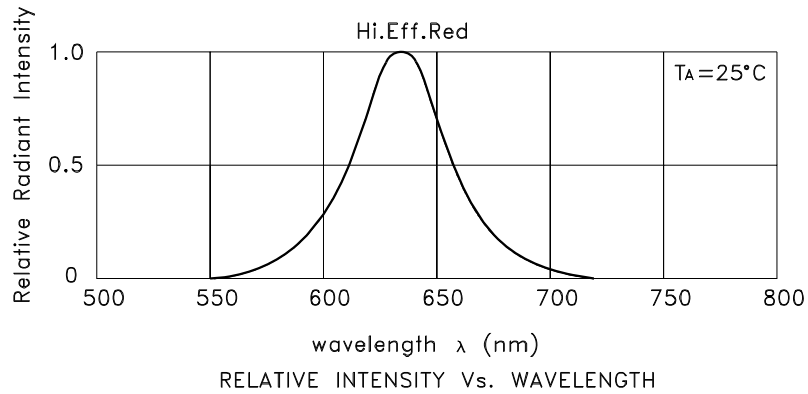
- 1.Wavelength: +/-1nm.

## Absolute Maximum Ratings at TA=25°C

Parameter	High Efficiency Red	Units
Power dissipation	85	mW
Forward Voltage	6	V
Reverse Voltage	5	V
Operating Temperature	-40°C To +70°C	
Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [1]	260°C For 3 Seconds	
Lead Solder Temperature [2]	260°C For 5 Seconds	

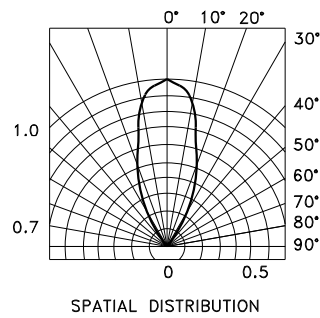
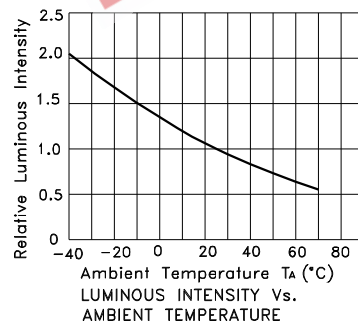
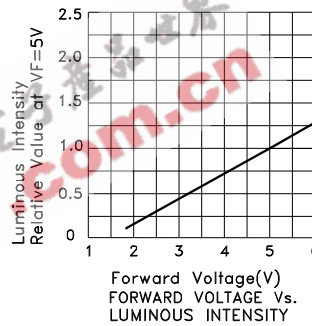
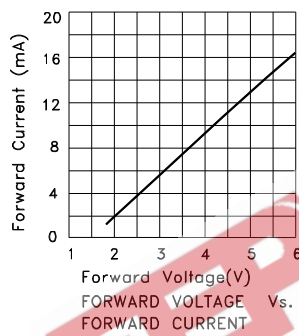
Notes:

1. 2mm below package base.
2. 5mm below package base.



## High Efficiency Red

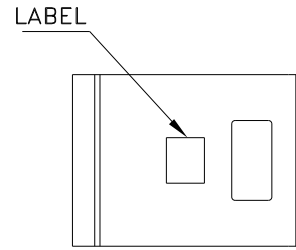
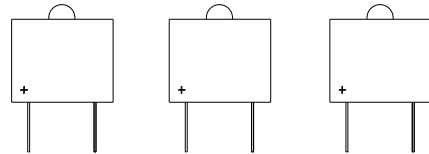
## AM2520EJ/ID5V



# Kingbright

## PACKING & LABEL SPECIFICATIONS

## AM2520EJ/ID5V

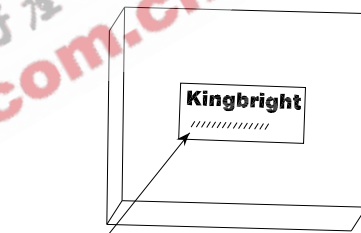


250PCS / BAG




28K / 9# BOX

OUTSIDE LABEL



LABEL

1,000pcs / Box

<b>Kingbright</b>	
Q.C.	QC XX XX XX PASSED
TYPE NO : AM2520EJxxx	
QUANTITY : 1,000 pcs	
S/N : XX	CODE: XX
LOT NO : 	
RoHS Compliant	