imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



3.0x2.5mm SURFACE MOUNT LED LAMP

Part Number: APB3025EYC-F01

High Efficiency Red Yellow

Features

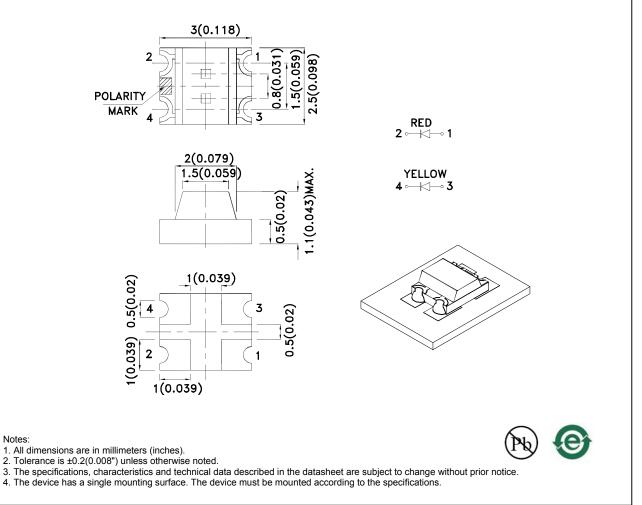
- 3.0mmx2.5mm SMT LED, 1.1mm thickness.
- Bi -color,low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

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

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

Package Dimensions



REV NO: V.5 CHECKED: Allen Liu DATE: APR/18/2011 DRAWN: J.Yu PAGE: 1 OF 6 ERP: 1203000699

Selection Guide lv (mcd) [2] Viewing @ 20mA Angle [1] Part No. Dice Lens Type Min. 201/2 Тур. High Efficiency Red (GaAsP/GaP) 8 15 APB3025EYC-F01 Water Clear 120° Yellow (GaAsP/GaP) 5 10

Notes:

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

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red Yellow	627 590		nm	I⊧=20mA
λD [1]	Dominant Wavelength	High Efficiency Red Yellow	625 588		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red Yellow	45 35		nm	I⊧=20mA
С	Capacitance	High Efficiency Red Yellow	15 20		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	High Efficiency Red Yellow	2 2.1	2.5 2.5	V	I⊧=20mA
lr	Reverse Current	High Efficiency Red Yellow		10 10	uA	VR = 5V

Notes:

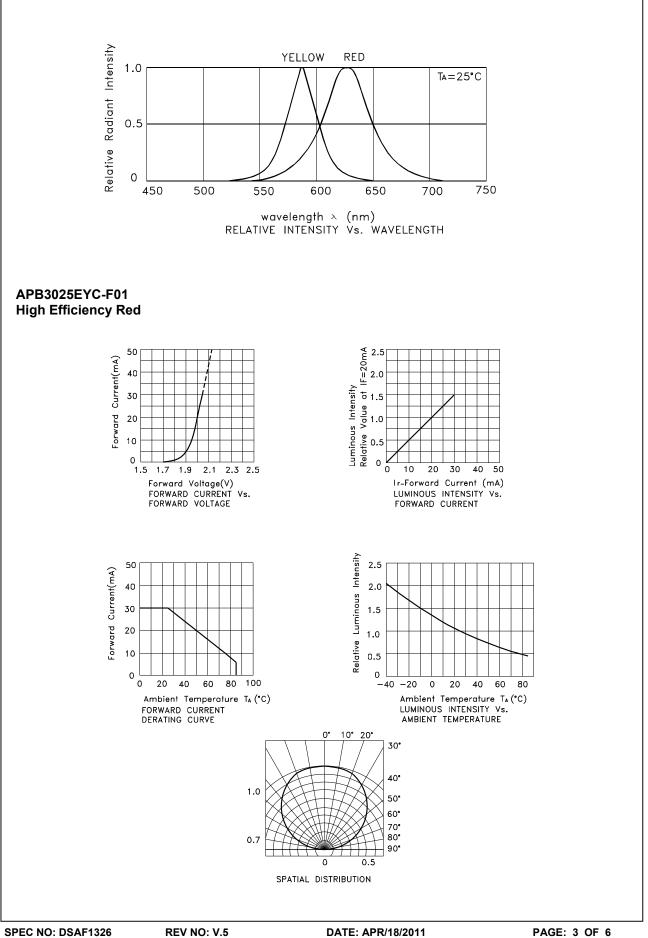
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

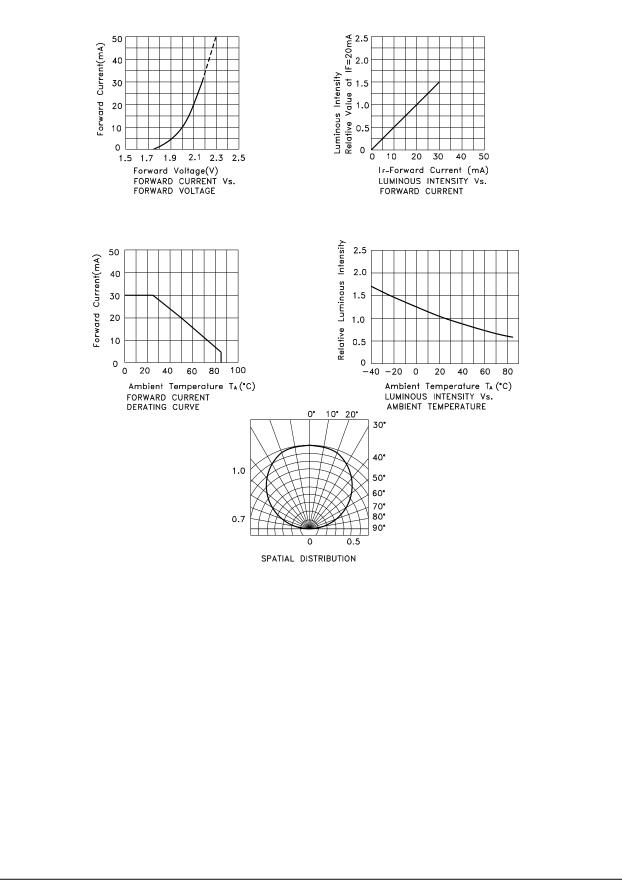
Parameter	High Efficiency Red	Yellow	Units		
Power dissipation	75	75	mW		
DC Forward Current	30	30	mA		
Peak Forward Current [1]	160	140	mA		
Reverse Voltage		V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

Note:

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



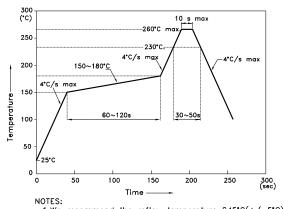
Yellow



APB3025EYC-F01

Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

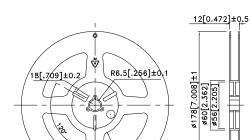
Reflow Soldering Profile For Lead-free SMT Process.



NOTES: 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature. 3.Number of reflow process shall be 2 times or less.



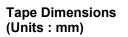
4.4 0.6 L- 1.0

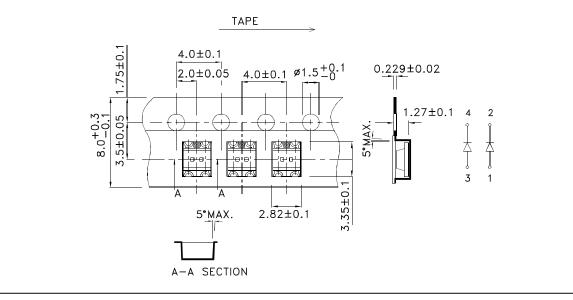


Ŕ36[1

9[0<u>.354]±0.2</u>

Reel Dimension





REV NO: V.5 CHECKED: Allen Liu DATE: APR/18/2011 DRAWN: J.Yu

PAGE: 5 OF 6 ERP: 1203000699

