3.0mmx1.0mm RIGHT ANGLE SMD CHIP LED LAMP

The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange

The Yellow source color devices are made with Gallium

Arsenide Phosphide on Gallium Phosphide Yellow Light

Part Number: APBA3010EYC-GX

Description

Emitting Diode.

Light Emitting Diode.

High Efficiency Red Yellow

Features

- 3.0mmx1.0mm right angle SMT LED, 2.0mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability.
- RoHS compliant.

Package Dimensions

3[0.118] 3 0.039 2 1 YELLOW RED 0.35[0.014] 0.35[0.014] YELLOW 3 ∘ -14 2[0.079] 1 [0.039]±0.2 2 RED 2[0.079 0.039] 0.4[0.016] 0.006 58[0.023] 2 0.4[0.016] 0.9[0.035] POLARITY MARK Notes: 1. All dimensions are in millimeters (inches). 2. Tolerance is ±0.15(0.006") unless otherwise noted. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice. The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAL3681 APPROVED: WYNEC REV NO: V.3A CHECKED: Allen Liu DATE: DEC/06/2011 DRAWN: Y.H.Wu PAGE: 1 OF 6 ERP: 1203012194

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Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
APBA3010EYC-GX	High Efficiency Red (GaAsP/GaP)	Water Clear	8	15	140°
			*3	*8	
	Yellow (GaAsP/GaP)		5	8	
			*5	*8	

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%.
*Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Ту	yp.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red Yellow	627 590	*627 *590		nm	IF=20mA
λD [1]	Dominant Wavelength	High Efficiency Red Yellow	625 588	*617 *588		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red Yellow		15 35		nm	IF=20mA
С	Capacitance	High Efficiency Red Yellow	-	15 20		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	High Efficiency Red Yellow		2 1	2.5 2.5	V	IF=20mA
lr	Reverse Current	High Efficiency Red Yellow			10 10	uA	VR = 5V

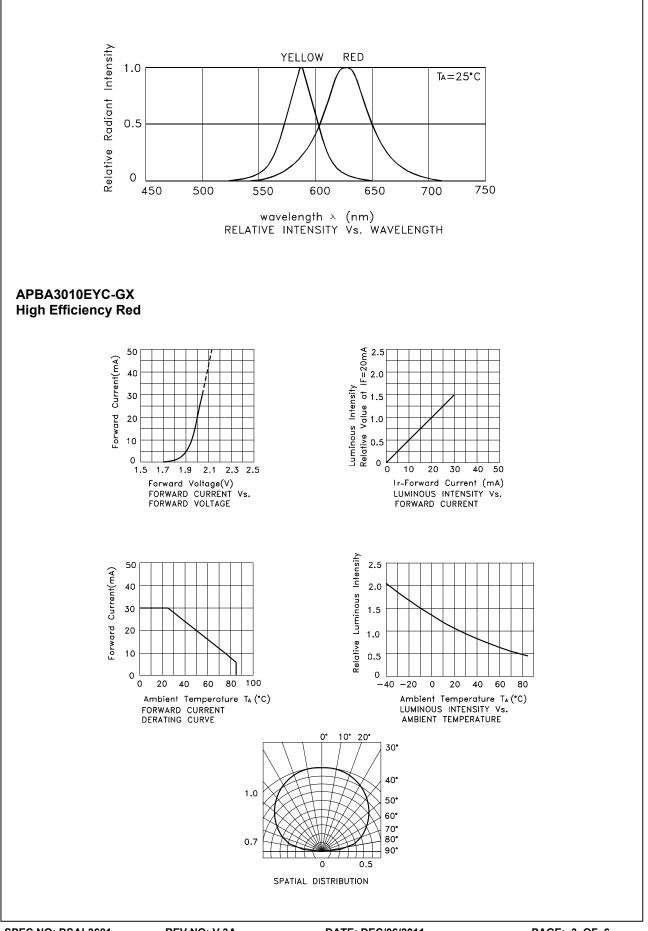
Notes:

1.Wavelength: +/-1nm. 2.Forward Voltage: +/-0.1V. *Wavelength value is traceable to the CIE127-2007 compliant national standards.

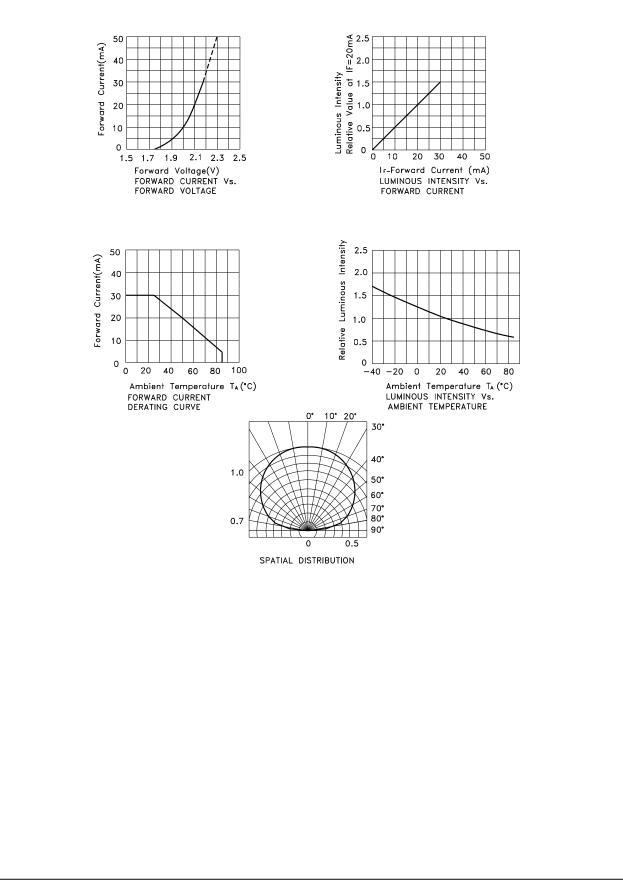
Absolute Maximum Ratings at TA=25°C

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.



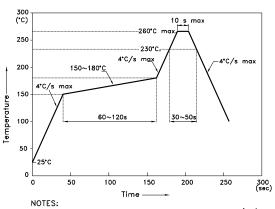
Yellow



APBA3010EYC-GX

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.

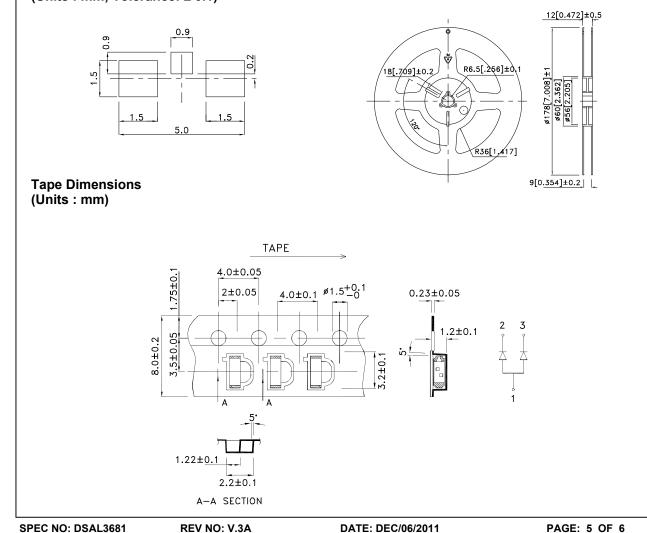
Reflow Soldering Profile For Lead-free SMT Process.



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.



Reel Dimension



REV NO: V.3A CHECKED: Allen Liu

DRAWN: Y.H.Wu

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