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.

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2mm x 5mm BI-COLOR RECTANGULAR LED LAMP

Part Number: WP117GYWT

Green Yellow

Features

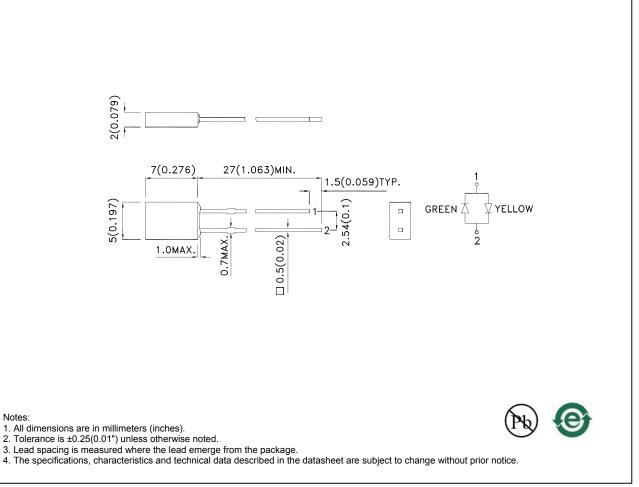
- Uniform light output.
- Suitable for level indicator.
- Low power consumption.
- Long life solid state reliability.
- RoHS compliant.

Description

The 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



REV NO: V.3 CHECKED: Allen Liu DATE: FEB/28/2011 DRAWN: J.Yu PAGE: 1 OF 7 ERP: 1101000881

Selection Guide								
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]			
			Min.	Тур.	201/2			
WP117GYWT	Green (GaP)	White Diffused	4	10	- 110°			
	Yellow (GaAsP/GaP)	white Dinused	3	6				

Notes:

01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
Luminous intensity/ luminous Flux: +/-15%.

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	Green Yellow	565 590		nm	IF=20mA	
λD [1]	Dominant Wavelength	Green Yellow	568 588		nm	IF=20mA	
Δλ1/2	Spectral Line Half-width	Green Yellow	30 35		nm	IF=20mA	
С	Capacitance	Green Yellow	15 20		pF	VF=0V;f=1MHz	
Vf [2]	Forward Voltage	Green Yellow	2.2 2.1	2.5 2.5	V	V IF=20mA	

Electrical / Optical Characteristics at TA=25°C

Notes:

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

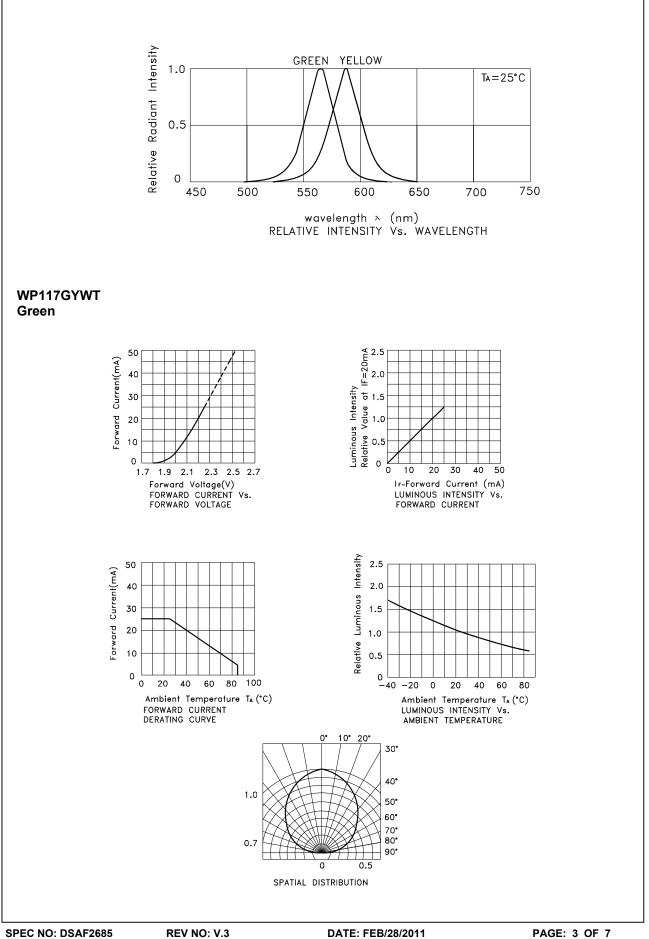
Absolute Maximum Ratings at TA=25°C

Parameter	Green	Yellow	Units		
Power dissipation	62.5	75	mW		
DC Forward Current	25	30	mA		
Peak Forward Current [1]	140	140	mA		
Operating / Storage Temperature	-40°C To +85°C				
Lead Solder Temperature [2]	260°C For 3 Seconds				
Lead Solder Temperature [3]	260°C For 5 Seconds				

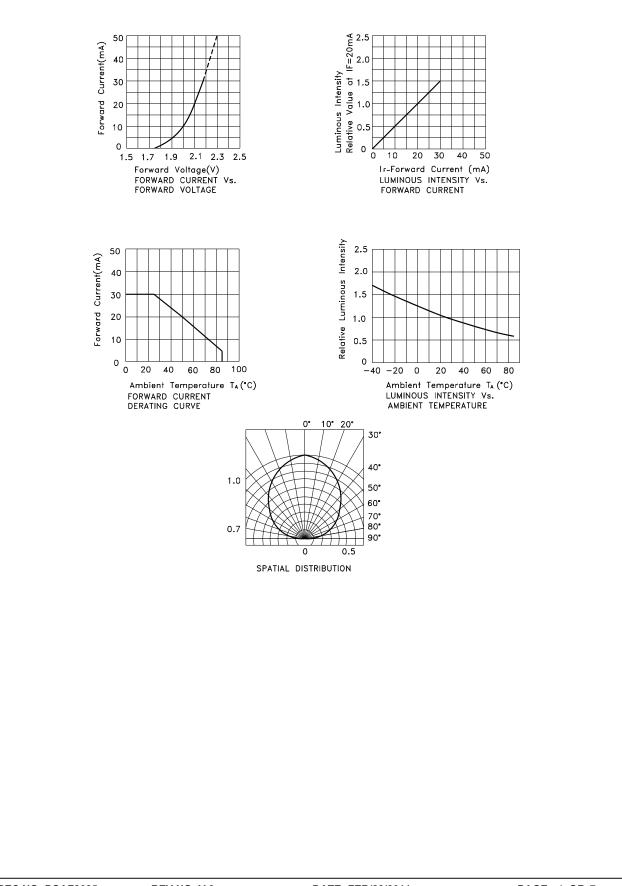
Notes:

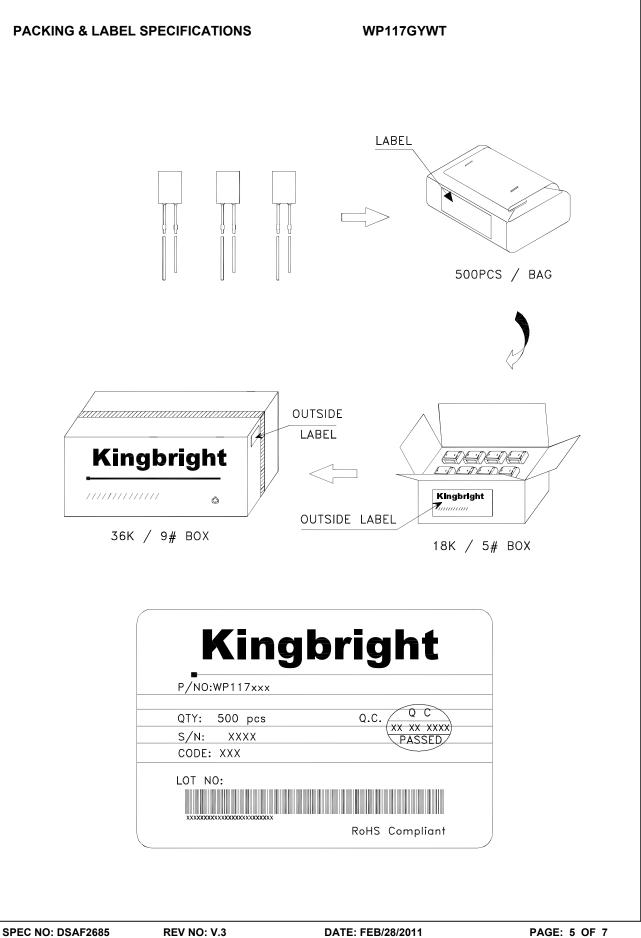
1.1/10 Duty Cycle, 0.1ms Pulse Width.
2.2mm below package base.
3.5mm below package base.

SPEC NO: DSAF2685 APPROVED: WYNEC



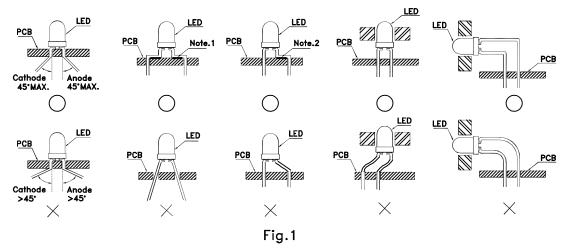
Yellow



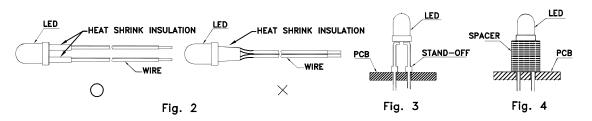


PRECAUTIONS

1. The lead pitch of the LED must match the pitch of the mounting holes on the PCB during component placement. Lead-forming may be required to insure the lead pitch matches the hole pitch. Refer to the figure below for proper lead forming procedures. (Fig. 1)



- \supset " Correct mounting method "imes " Incorrect mounting method
- When soldering wire to the LED, use individual heat-shrink tubing to insulate the exposed leads to prevent accidental contact short-circuit. (Fig.2)
- 3.Use stand-offs (Fig.3) or spacers (Fig.4) to securely position the LED above the PCB.



- 4. Maintain a minimum of 2mm clearance between the base of the LED lens and the first lead bend. (Fig. 5 and 6)
- 5. During lead forming, use tools or jigs to hold the leads securely so that the bending force will not be transmitted to the LED lens and its internal structures. Do not perform lead forming once the component has been mounted onto the PCB. (Fig. 7)

