8mm BI-COLOR INDICATOR LAMP

Part Number: WP799SURKMGKW

Hyper Red Mega Green

Features

- •Uniform light output.
- •Low power consumption.
- •3 leads with one common lead.
- •Long life solid state reliability.
- •RoHS compliant.

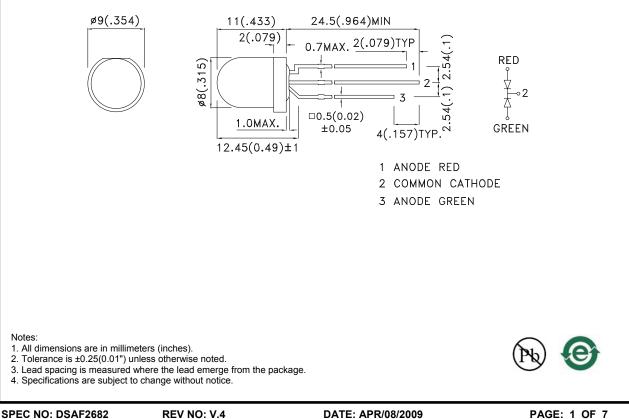
Description

The Hyper Red source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.

The Mega Green source color devices are made with

AlGaInP on GaAs substrate Light Emitting Diode.

Package Dimensions



APPROVED: WYNEC

CHECKED: Allen Liu

DRAWN: Y.F.Lu

ERP: 1101007426

Selection Guide Part No. Dice Lens Type @ 20mA						
			Min.	Тур.	201/2	
WP799SURKMGKW	Hyper Red (AlGaInP)		380	600	- 50°	
	Mega Green (AlGaInP)	WHITE DIFFUSED	50	130		

Notes:

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

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red Mega Green	650 574		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Hyper Red Mega Green	630 570		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red Mega Green	28 20		nm	IF=20mA
С	Capacitance	Hyper Red Mega Green	35 15		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Hyper Red Mega Green	1.95 2.1	2.5 2.5	V	IF=20mA
lr	Reverse Current	Hyper Red Mega Green		10 10	uA	VR = 5V

Notes:

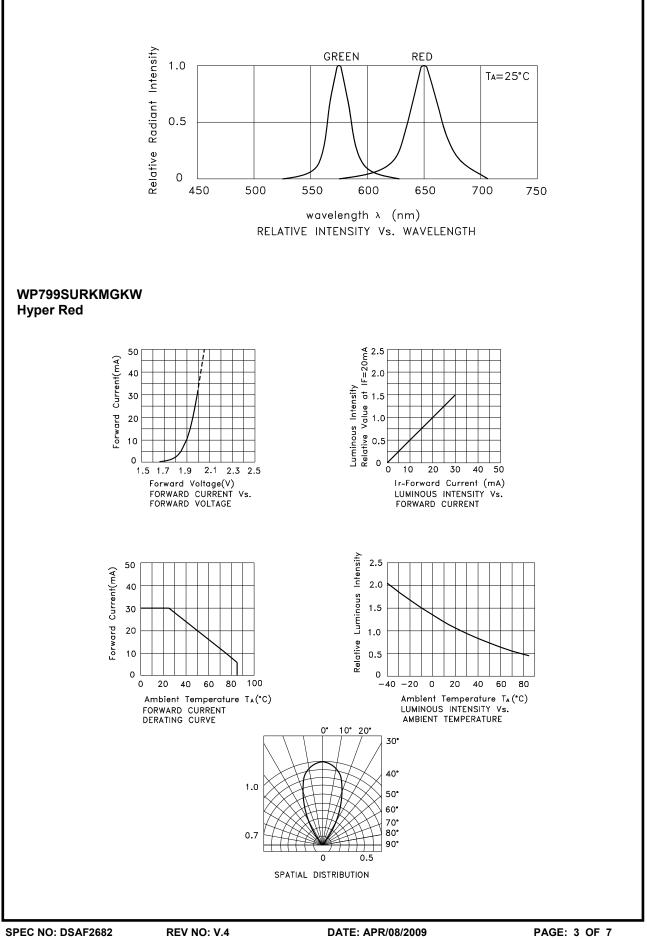
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

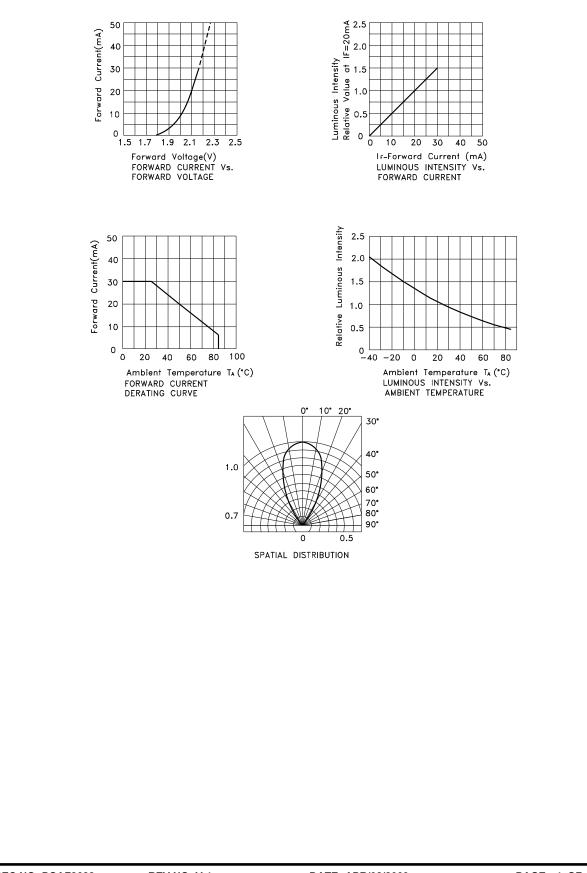
Parameter	Hyper Red	Mega Green	Units		
Power dissipation	75	75	mW		
DC Forward Current	30	30	mA		
Peak Forward Current [1]	185	150	mA		
Reverse Voltage		V			
Operating / Storage Temperature	-40°C To +85°C				
Lead Solder Temperature [2]	260°C For 3 Seconds				
Lead Solder Temperature [3]	260°C For 5 Seconds				

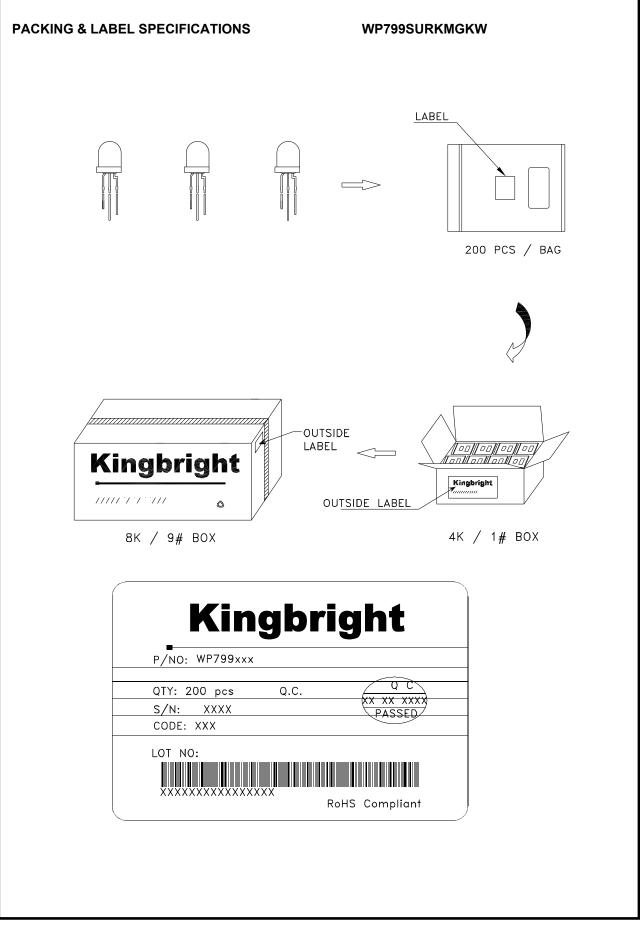
Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.
3. 5mm below package base.



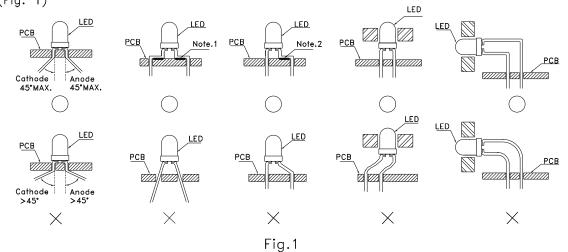
Mega Green





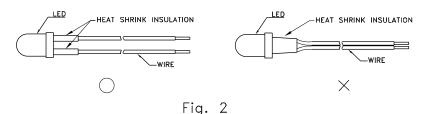
LED MOUNTING METHOD

 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)

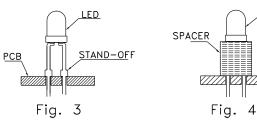


" \bigcirc " Correct mounting method " \times " Incorrect mounting method Note 1-2 : Do not route PCB trace in the contact area between the leadframe and the PCB to prevent short-circuits.

2. 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.

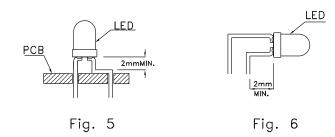


LED

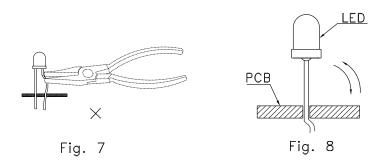
PCB

LEAD FORMING PROCEDURES

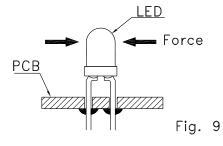
1. Maintain a minimum of 2mm clearance between the base of the LED lens and the first lead bend. (Fig. 5 and 6)



- 2. Lead forming or bending must be performed before soldering, never during or after Soldering.
- 3. Do not stress the LED lens during lead-forming in order to fractures in the lens epoxy and damage the internal structures.
- 4. 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)
- 5. Do not bend the leads more than twice. (Fig. 8)



6. After soldering or other high-temperature assembly, allow the LED to cool down to 50°C before applying outside force (Fig. 9). In general, avoid placing excess force on the LED to avoid damage. For any questions please consult with Kingbright representative for proper handling procedures.



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