3.4mm RIGHT ANGLE LED INDICATOR

Part Number: WP138A8QMP/GD/TG Green

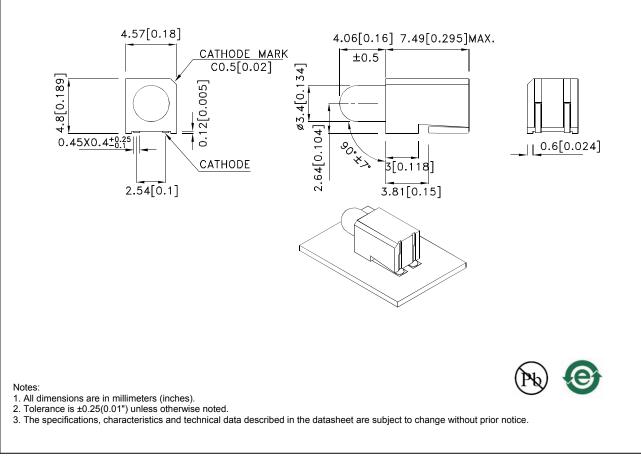
Features

- Surface mount type.
- Black case enhances contrast ratio.
- Wide viewing angle.
- High reliability life measured in years.
- Package:1000pcs / reel.
- Moisture sensitivity level : level 3.
- Housing UL rating:94V-0.
- Housing material: PPA.
- High temperature resistant housing.
- High glass transition temperature epoxy.
- RoHS compliant.

Package Dimensions

Description

The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.



DATE: MAR/19/2013 DRAWN: F.Cui PAGE: 1 OF 6 ERP: 1102000491

Selection Guide

Part No.	Dice	Lens Type	lv (mo @ 1	·	Viewing Angle [1]
			Min.	Тур.	201/2
WP138A8QMP/GD/TG	Green (GaP)	Green Diffused	6	12	60°

Notes:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

2. Luminous intensity/ luminous Flux: +/-15%.

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

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green	565		nm	IF=20mA
λD [1]	Dominant Wavelength	Green	568		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Green	30		nm	IF=20mA
С	Capacitance	Green	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Green	2.2	2.5	V	I⊧=20mA
lr	Reverse Current	Green		10	uA	VR = 5V

Notes:

1.Wavelength: +/-1nm.

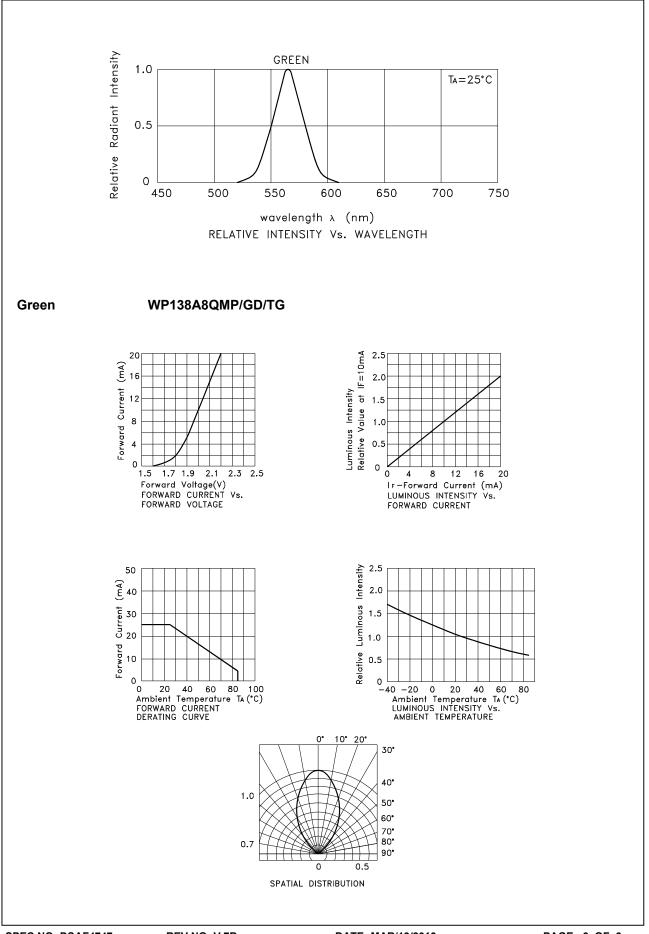
Forward Voltage: +/-0.1V.
 Wavelength value is traceable to the CIE127-2007 compliant national standards.

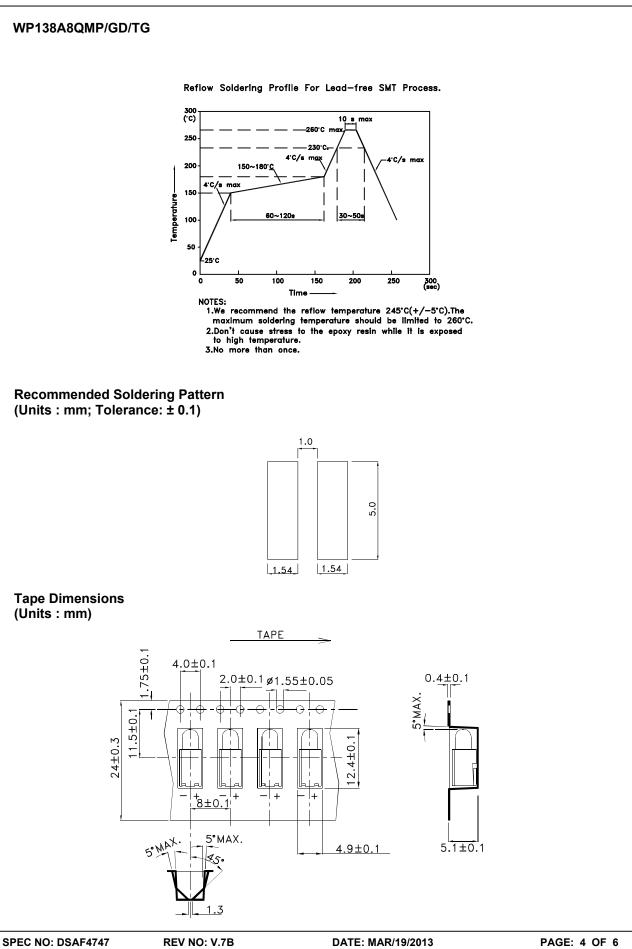
Absolute Maximum Ratings at TA=25°C

Parameter	Green	Units	
Power dissipation	62.5	mW	
DC Forward Current	25	mA	
Peak Forward Current [1]	140	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

Note:

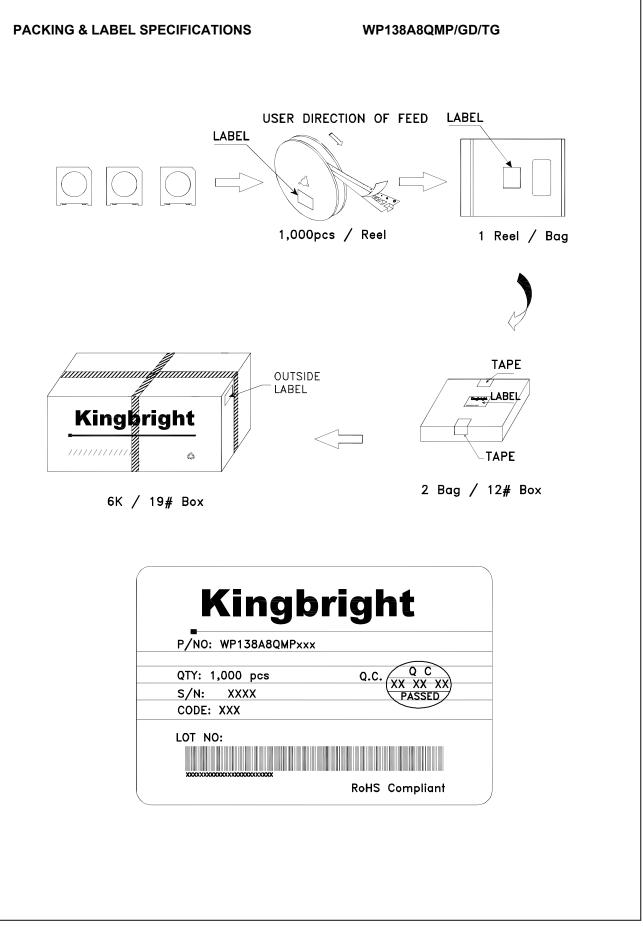
1. 1/10 Duty Cycle, 0.1ms Pulse Width.





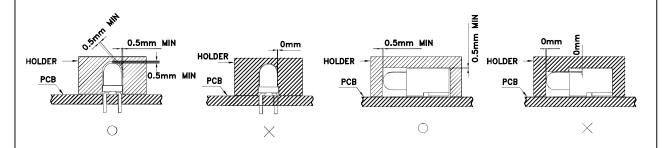
CHECKED: Allen Liu

DRAWN: F.Cui



PRECAUTIONS

- 1.A moisture barrier bag (MBB) containing LEDs shall be kept in an environment with temperature below 40°C and humidity below 90% RH. A MBB shall be kept sealed until the LEDs contained in that bag are to be used immediately. Storge in an environment with temperature 5~30°C and humidity below 60% RH.
- 2.After a MBB has been opened, all LEDs contained in that bag shall complete soldering process within according to the conditions listed on the Kingbright MBB.
- 3.If the 10% spot of a humidity indicator card (HIC) indicates wet, LEDs shall be baked according to the conditions listed on the Kingbright MBB.
 4.During soldering, component covers and holders should leave clearance to avoid placing damaging stress on the LED during soldering.



- 5.The tip of the soldering iron should never touch the lens epoxy.6.After soldering, allow at least three minutes for the component to cool to room temperature before further operations.
- 7.If the LED will undergo multiple soldering passes or face other processes where the part may be subjected to intense heat, please check with Kingbright for compatibility.

All design applications should refer to Kingbright application notes available at http://www.KingbrightUSA.com/ApplicationNotes