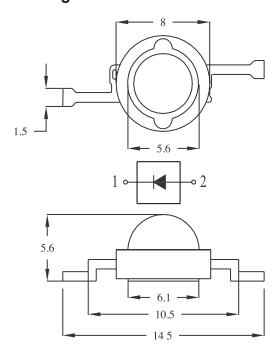


RoHS Compliant

Package Dimensions:



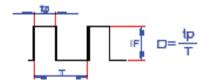
All dimensions are in mm Tolerance: ±0.25mm

Absolute Maximum Ratings at Ta=25°C

Parameter	Rating	Unit
Power Dissipation	1,400	mW
LED Junction Temperature	120	°C
Reverse Voltage	5	V
D.C. Forward Current	350	mA
Pulsed Forward Current (tp ≤ 100μs, Duty Cycle = 0.005 × 1)	700	mA
Operating Temperature Range	-40 to +75	°C
Storage Temperature Range	-40 to +100	°C
Soldering Temperature	Reflow Soldering: 260°C for 10sec. Hand Soldering: 350°C for 3 sec.	
Electric Static Discharge (HBM)	6,000	V



Duty Cycle:



- · Proper current derating must be observed to maintain junction temperature below the maximum.
- All products no sensitive to ESD damage (6,000 Volts by HBM condition)
- Be careful with a powered up current limited power supply, because of current spikes during power up and/or connection.
 Best practice is to connect the LED then turn up the voltage gradually. People building their own power supplies should design for minimum current spikes during power up and connection.
- For best results the customer needs to provide proper control of the thermal path, protect against electrical overstress conditions and ensure they are properly attached to the heat sink.
- It is strongly recommended that the temperature of lead does not exceed 55°C.
- · It is strongly recommended to apply an electrically isolated heat conducting film between the slug and contact surfaces

Electrical & Optical Characteristics

Parameter		Symbol Condition -	Values			1114			
			Condition	Min.	Тур.	Max.	Unit		
Luminous Flux	FULL	Ф۷		10	20		lm		
	Rank L1			10		15			
	Rank L2		IF=350mA	15		20			
	Rank L3			20		25			
	Rank L4			25		30			
	Rank L5				30		35	1	
	Rank L6			1		35		40	1
Forward Voltage	Rank V1			3		3.25			
	Rank V2	Vf	Vf	Vf	15 050 4	3.25		3.5	
	Rank V3				IF=350mA	3.5		3.75	V
	Rank V4				3.75		4	1	
Dominant Wavelength(per LED)		λD	,,,	460		465			
				465		470	nm		
			VD	470		475			
				475		480			
Reverse Current		lr				50	μA		
Viewing Angle at 50% IV		2θ½			120		deg		
Thermal resistance Junction to Case		R θ J-с			15		°C/W		

Notes: 1. The data is tested by an IS tester.

2. Customer's special requirements are also welcome.

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Typical Electrical & Optical Characteristics Curves:

(25°C Ambient temperature unless otherwise noted)

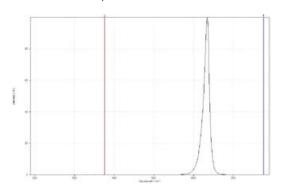
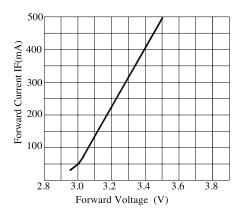
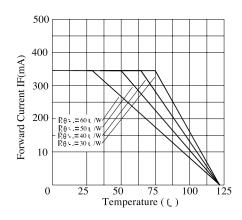


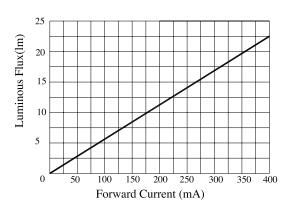
Fig.1 WHITE LED Spectrum VS. WAVELENGTH



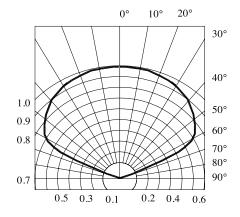
Forward Current VS. Applied Voltage



Ambient Temperature VS. Forward Current



Forward Current VS. Luminous Flux



Radiation Diagram

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Recommended Storage Environment:

- Temperature: 5°C ~ 30°C (41°F ~ 86°F)
- · Humidity: 60% RH Max.
- Use within 7 days after opening of sealed vapour/ESD barrier bags.
- If moisture absorbent material (silica gel) has faded away or LEDs have exceeded the storage time, baking treatment should be performed using the following conditions:
- Baking Treatment: 60 ± 5°C for 24 hours
- · Fold the opened bag firmly and keep in dry environment.

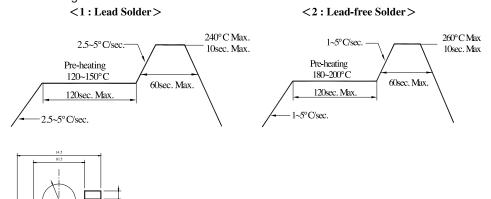
Soldering

_	Reflow Soldering				
	Lead Solder	Lead-free Solder			
Pre-heat	120 ~ 150°C	180 ~ 200°C	Temperature	350°C max.	
Pre-heat Time	120sec. max.	120sec. max.		3sec max. (one time only)	
Peak Temperature	240°C max.	260°C max.			
Soldering Time	10sec. max.	10sec. max.	Soldering time		
Condition	Refer to temperature- profile 1	Refer to temperature- profile 2			

^{*}After reflow soldering rapid cooling should be avoided.

Temperature-profile (surface of circuit board):

Use the conditions shown under figure.



Part Number Table

LED Chip		Lens Colour	Part Number	
Material	Emitter Colour			
GaAlInP / Si	True Green	Water clear	703-0147	

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Page <4>

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