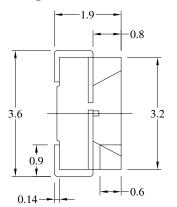
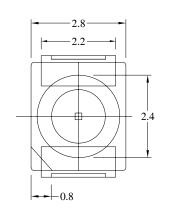
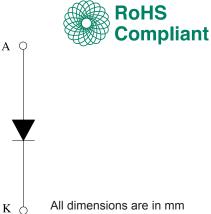
multicomp

Package Dimensions:







Α

Tolerance: ±0.25mm

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit
Power Dissipation		120	mW
Reverse Voltage	Vr	5	V
D.C. Forward Current	lf	30	mA
Pulsed Forward Current (1 / 10 Duty Cycle, 0.1ms Pulse Width)	If (Peak)	100	mA
Operating Temperature Range	Topr.	-40 to +100	°C
Storage Temperature Range	Tstg.	-40 to +100	°C
Soldering Temperature	Tsld.	Reflow Soldering: 260°C for 10sec. Hand Soldering: 350°C for 3sec.	
Electric Static Discharge Threshold (HBM)	ESD	6,000	V

Electrical & Optical Characteristics: Hyper Red

Parameter		Symbol	Condition	Min.	Тур.	Max.	Unit
Luminous Intensity		lv	lf = 20mA	1,000	2,098	-	mcd
Luminous Flux		Φν	lf = 20mA	-	5,100	-	mlm
Forward Voltage		Vf	lf = 20mA	-	3.2	4	V
Correlated Colour Temperature	WA	ССТ	lf = 20mA	5,000	-	5,250	к
	WB			5,250	-	5,500	
	WC			5,500	-	5,750	
	WD			5,750	-	6,000	
Colour Rendering Index (Ra)		CRI	lf = 20mA	-	64	-	Ra
Reverse Current		lr	Vr = 5V	-	-	50	μA
Viewing Angle		20 ½	lf = 20mA	-	120	-	deg

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

2. Customer's special requirements are also welcome.

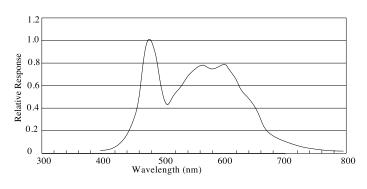
www.element14.com www.farnell.com www.newark.com

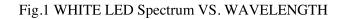


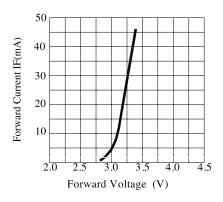
multicomp

Typical Electrical & Optical Characteristics Curves:

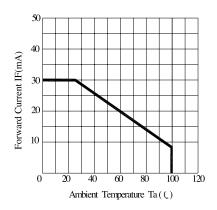
(25°C Ambient temperature unless otherwise noted)



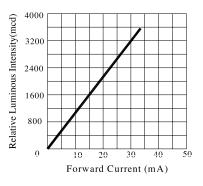


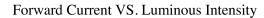


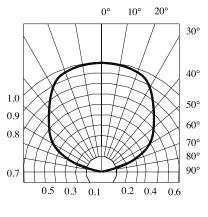
Forward Current VS. Applied Voltage



Ambient Temperature VS. Forward Current







Radiation Diagram



multicomp

Recommended Storage Environment:

- Temperature: 5°C to 30°C (41°F to 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

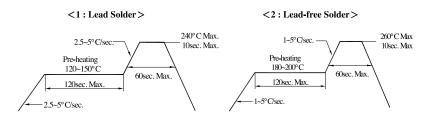
Soldering

Reflow Soldering			Hand Soldering		
	Lead Solder	Lead-free Solder			
Pre-heat	12°C ~ 150°C	180°C ~ 200°C	Temperature	350°C Max.	
Pre-heat Time	120sec. Max.	120sec. Max	Soldering Time		
Peak Temperature	240°C Max.	260°C Max.		3sec. Max (one time only)	
Soldering Time	10sec Max.	10sec. Max			
Condition	Refer to Temperature Profile 1	Refer to Temperature Profile 1		(

*After reflow soldering rapid cooling should be avoided.

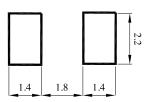
Temperature-profile (surface of circuit board)

Use the conditions shown under figure.



Recommended Soldering Pad Design

Use the conditions shown under figure.



Part Number Table

LED	Chip	Lens Colour	Part Number	
Material	Emitting Colour	Lens Colour		
InGaN / Sapphire	White	Yellow diffused	703-1026	

Important Notice : This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2012.

www.element14.com www.farnell.com www.newark.com

