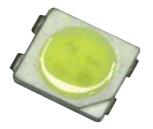
5mm×5mm SMD Type







Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit	
Power Dissipation*	Pb	120	mW	
Reverse Voltage*	VR	5	V	
D.C. Forward Current*	lf	30	mA	
Peak Current (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.	Dip Soldering: 260°C for 10sec. Hand Soldering: 350°C for 3sec.		
Electric Static Discharge Threshold (HBM)*	ESD	6000	V	

^{*} The values are based on 1 die performance.

Electrical and Optical Characteristics

Parameter		Symbol Co	Condition	Value			I I mit		
			Condition	Min.	Тур.	Max.	Unit		
Luminous Intensity*2		lv	IF = 20mA*1	6000	7500	-	mcd		
Luminous Flux*2		V	IF = 20mA*1	-	15	-	mlm		
Forward Voltage*2		Vf	IF = 20mA*1	-	3.2	4.0	V		
Correlated Colour Temperature*2	WE	- ССТ		6000	-	6250			
	WF		ССТ	IF - 20 - 4 *1	IF = 20mA*1	6250	-	6500	_K
	WG			7 (()		IF - ZUIIIA	6500	-	6750
	WH			6750	-	7000			
Colour Rendering Inde	x (RA)	CRI	IF = 20mA	-	95	-	Ra		
Reverse Current*1		lr	Vr = 5V*1	-	-	50	μΑ		
View Angle*2		2θ½	IF = 20mA*1	-	120	-	Deg.		

Notes:

- 1. The data is tested by an IS tester.
- 2. Customer's special requirements are also welcome.
- 3. *1 for each die.
- 4. *2 when all LED dies are operated simultaneously.

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5mm×5mm SMD Type



Storage

Recommended storage environment:

- Temperature: 5°C to 30°C (41°F to 86°F)
- · Humidity: 60% RH Max.
- Moisture measures: Refer to Moisture-sensitive label on reels package bags. If unused LEDs remain, they should be stored
 in moisture proof packages, such as a sealed container with packages of moisture absorbant material
 (silica gel). It is also recommended to return the LEDs to the original moisture proof bag and to reseal it
 again (fold the open bag firmly shut and keep in a dry environment.

Soldering:

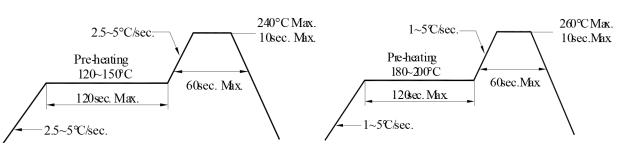
Reflow Soldering			Hand Soldering		
	Lead Solder	Lead-free Solder			
Pre-heat	120 ~ 150°C	180 ~ 200°C	Temperature	350°C Max.	
Pre-heat Time	120sec. Max.	120sec. Max.	Soldering Time	3 Sec. Max. (one time only)	
Peak Temperature	240°C Max.	260°C Max.			
Soldering Time	10sec. max.	10sec. Max.			
Condition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

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

Temperature-prole (Surface of circuit board):

Use the following conditions shown in the figure.

<1: Lead Solder>



Typical Electrical / Optical Characteristic Curves:

(25°C Ambient Temperature unless otherwise noted)

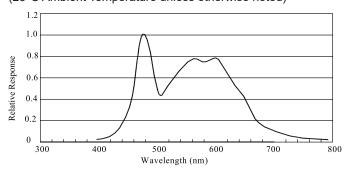
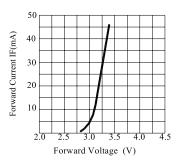


Fig.1 WHITE LED Spectrum VS. WAVELENGTH



<2 : Lead-free Solder>

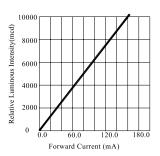
Forward Current VS. Applied Voltage

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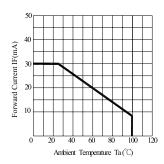


5mm×5mm SMD Type

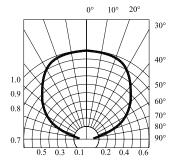
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Forward Current VS. Luminous Intensity

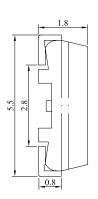


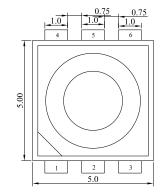
Ambient Temperature VS. Forward Current

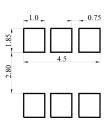


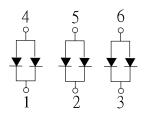
Radiation Diagram

Diagram









Part Number Table

LED Chip		Lens Colour	Part Number	
Material	Emitting Colour	Lens Colour	Fait Nulliber	
AlGaInP / Sapphire	White	Yellow Diffused	703-1043	

Dimensions: Millimetres

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