

	LEC	Lens Colour	
Ant Part No.	Material	Emitting Colour	
703-1032	AlGaInP/Sapphire	White	Water Clear

Absolute Maximum Ratings at Ta=25°C:

Parameter	Symbol	Rating	Unit	
Power Dissipation*	PD	120	mW	
Reverse Voltage*	VR	5	V	
D.C. Forward Current*	If	30	mA	
Peak Current (½ Duty Cycle, 0.1 ms 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.

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Electrical & Optical Characteristics:

Parameter		Sumala al	Condition	Value			l la it
		Symbol	Condition	Min.	Тур.	Max.	Unit
Luminous Intensity*2		lv	IF=20 mA*1	3159	5500	-	mcd
Luminous Flux* ²		Ф٧	IF = 20 mA*1	-	11300	-	mlm
Forward Voltage*2		Vf	IF = 20 mA*1	-	3.2	4.0	V
Correlated Colour Temperature* ²	27	CCT	JE 20 A	2700	-	2900	IZ.
	29	CCT	IF = 20 mA	2900	-	3100	T K
Reverse Current*1	,	l _R	Vr = 5V*1	-	-	50	μΑ
View Angle*2		201/2	IF = 20 mA*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.

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 ¹⁰¹ each die.
 *2 when all LED dies are operated simultaneously.





Typical Electrical / Optical Characteristic Curves:

(25°C Ambient Temperature unless otherwise noted)

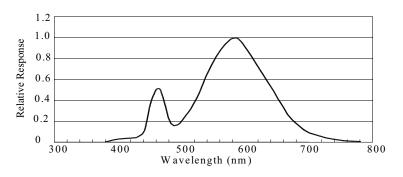
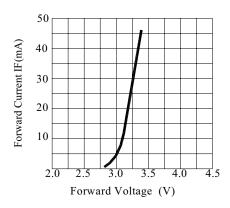
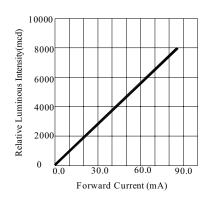
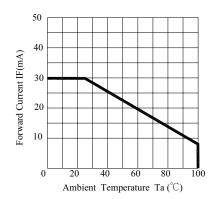


Fig.1 WHITE LED Spectrum VS. WAVELENGTH

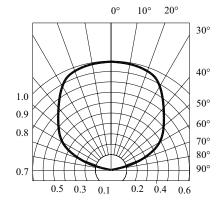




Forward Current VS. Applied Voltage



Forward Current VS. Luminous Intensity



Ambient Temperature VS. Forward Current

Radiation Diagram

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Storage:

Recommended storage environment:

- Temperature: 5°C ~ 30°C (41°F ~ 86°F)
- Humidity: 60% RH Max.
- Moisture measures: Please 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

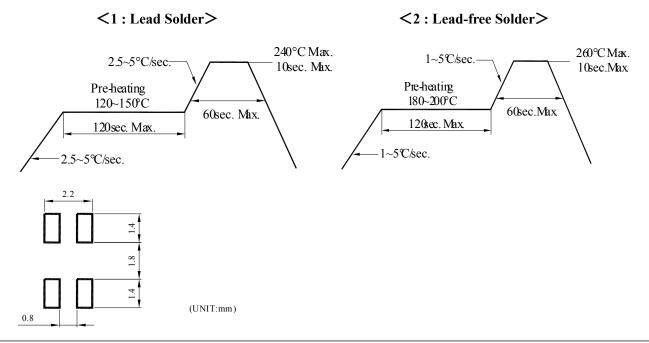
Soldering:

Reflow Soldering			Ha	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			
Peak Temperature	240°C Max.	260°C Max.				
Soldering Time	10sec. max.	10sec. Max.		3sec. Max. (one time only)		
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 following conditions shown in the figure.



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