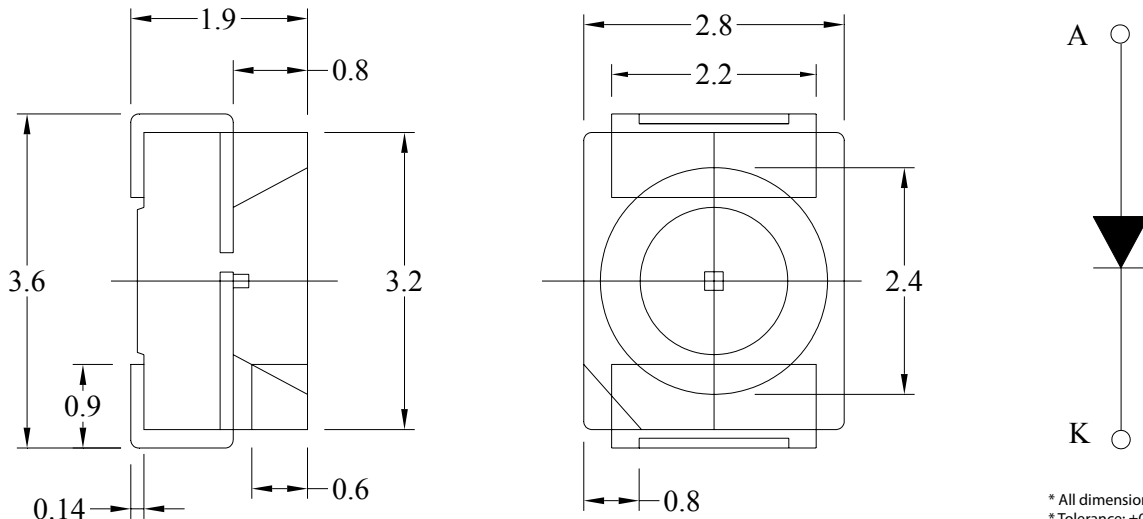


3.2 x 2.8mm SMD Type



Package Dimensions:



* All dimensions are in mm
* Tolerance: ± 0.25 mm unless otherwise noted.

Ant Part No.	LED Chip		Lens Colour
	Material	Emitting Colour	
703-1029	AlGaInP / Sapphire	White	Water Clear

Absolute Maximum Ratings at Ta=25°C:

Parameter	Symbol	Rating	Unit
Power Dissipation	P _D	120	mW
Reverse Voltage	V _R	5	V
D.C. Forward Current	I _f	30	mA
Peak Current (1/10 Duty Cycle, 0.1ms Pulse Width)	I _f (Peak)	100	mA
Operating Temperature Range	T _{opr.}	-40 to +100	°C
Storage Temperature Range	T _{stg.}	-40 to +100	°C
Soldering Temperature	T _{slid.}	Dip Soldering: 260°C for 10sec. Hand Soldering: 350°C for 3sec.	
Electric Static Discharge Threshold (HBM)	ESD	6000	V

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3.2 x 2.8mm SMD Type



Electrical & Optical Characteristics:

Parameter	Symbol	Condition	Value			Unit	
			Min.	Typ.	Max.		
Luminous Intensity	E	I _v	I _F = 20 mA	1600	-	1800	mcd
	F			1800	-	2000	
	G			2000	-	2200	
	H			2200	-	2400	
	I			2400	-	2600	
Luminous Flux	Φ _v	I _F = 20 mA	-	5800	-	mlm	
Forward Voltage	V20	V _f	I _F = 20 mA	2.9	-	3.0	V
	V21			3.0	-	3.1	
	V22			3.1	-	3.2	
	V23			3.2	-	3.3	
	V24			3.3	-	3.4	
	V25			3.4	-	3.5	
	V26			3.5	-	3.6	
Correlated Colour Temperature	WA	CCT	I _F = 20 mA	5000	-	5250	K
	WB			5250	-	5500	
	WC			5500	-	5750	
	WD			5750	-	6000	
	WE			6000	-	6250	
Reverse Current	I _R	V _r = 5V	-	-	50	μA	
View Angle	2θ _{1/2}	I _F = 20 mA	-	120	-	deg	

Notes: 1. The data is tested by an IS tester.
2. Customer's special requirements are also welcome.

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3.2 x 2.8mm SMD Type



Typical Electrical / Optical Characteristic Curves: (25°C Ambient Temperature unless otherwise noted)

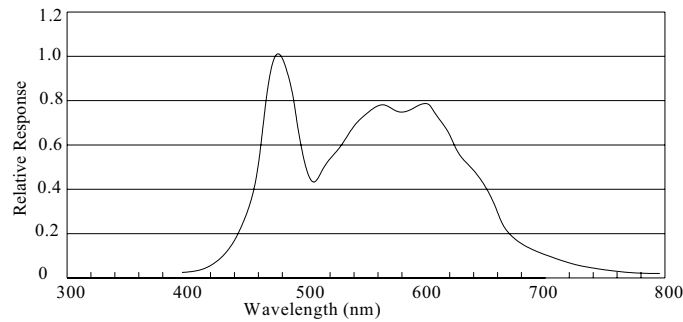
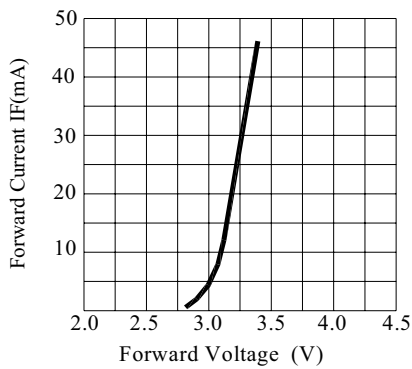
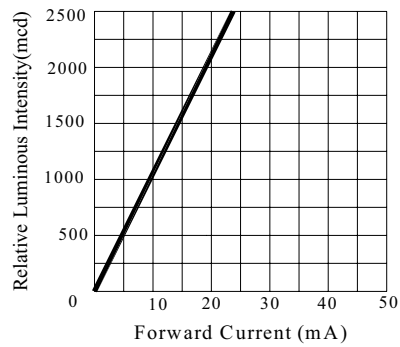


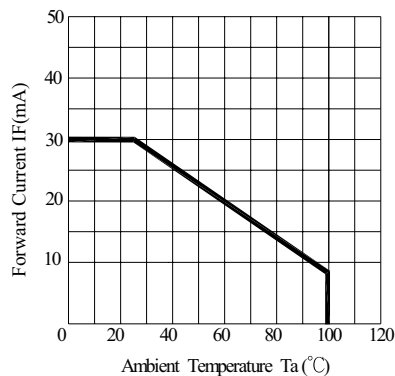
Fig.1 WHITE LED Spectrum VS. WAVELENGTH



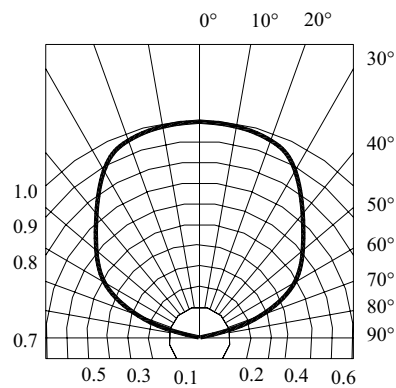
Forward Current VS. Applied Voltage



Forward Current VS. Luminous Intensity



Ambient Temperature VS. Forward Current



Radiation Diagram

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3.2 x 2.8mm SMD Type



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:

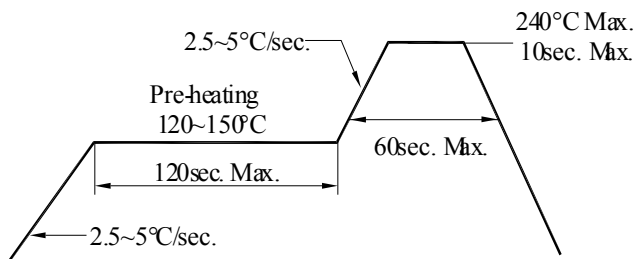
Reflow Soldering			Hand Soldering	
	Lead Solder	Lead-free Solder		
Pre-heat	120 ~ 150°C	180 ~ 200°C	Temperature	350°C Max.
Pre-heat Time	120sec. Max.	120sec. Max.	Soldering Time	3sec. Max. (one time only)
Peak Temperature	240°C Max.	260°C Max.		
Soldering Time	10sec. max.	10sec. Max.		
Condition	Refer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

* After reflow soldering rapid cooling should be avoided.

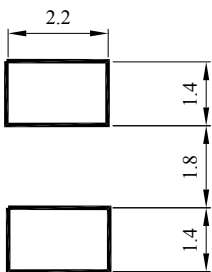
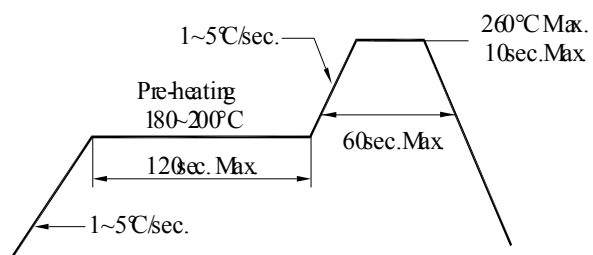
Temperature-profile (Surface of circuit board):

Use the following conditions shown in the figure.

<1 : Lead Solder>



<2 : Lead-free Solder>



(UNIT:mm)

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