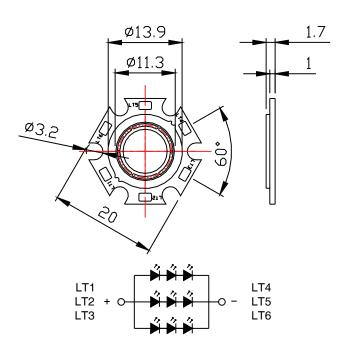




Package Dimensions:



All dimensions are in mm Tolerance: ±0.25mm

Features:

- Pb-Free soldering application
- Multi-Chip package
- · High reliability

Applications:

- Bulb
- · Indoor decoration lighting
- · Signal and symbol luminaries
- Reading lights
- Portable flashlight

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit
Power Dissipation*	Po	1,260	mW
LED Junction Temperature*	Tj	120	V
Reverse Voltage*	Vr	5	mA
D.C. Forward Current*	lr	350	μA
Peak Current (1 / 10 Duty Cycle, 0.1ms Pulse Width)*	If (Peak)	500	mA
Storage Temperature Range	Tstg.	-40 to +85	°C
Soldering Temperature (1.6mm from body)	Tsld.	d. Dip Soldering: 260°C for 10sec. Hand Soldering: 350°C for 3sec.	
Electric Static Discharge Threshold (HBM)*	ESD	300	V

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





Electrical & Optical Characteristics

Parameter		Symbol	Condition	Min.	Тур.	Max.	Unit
			IF=1,050mA	550	650		lm
Luminous Flux	Rank L1	Ф۷		550		650	
	Rank L2			650		750	
Forward Voltage			IF=1,050m		9.5		V
	Rank V1	VF		9		9.5	
	Rank V2			9.51		10	
	Rank V3			10.01		10.5	
Correlated Colour Temperature		CCT	IF=1,050mA	2,875	3,000		K
CIE Chromaticity Coordinates: X Axis		X	IF=1,050mA		0.4338		
CIE Chromaticity Coordinates: Y Axis		Υ	IF=1,050mA		0.4030		
Reverse Current		lr	Vr=5V			50	μA
Colour Rendering Index		CRI	IF=1,050mA		74		Ra
Viewing Angle at 50%		2θ1⁄2		120		Deg	
Thermal Resistance Junction to Case		Rθj-c		15		°C / W	

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

2. Customer's special requirements are also welcome.

Typical Electrical & Optical Characteristics Curves:

(25°C Ambient temperature unless otherwise noted)

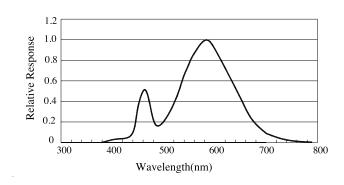
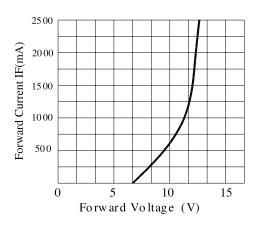


Fig.1 WARM WHITE LED Spectrum VS. WAVELENGTH



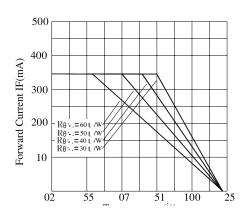


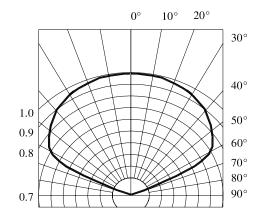


1100 900 500 100 200 300 1000 500 600 Forward Current (mA)

Forward Current VS. Applied Voltage

Forward Current VS. Luminous Flux





Ambient Temperature VS. Forward Current

Radiation Diagram

Chromaticity Coordinates Specifications for Bin Grading:

Bin	Rank				
7A	Х	0.3327	0.3394	0.3390	0.3324
	Y	0.3650	0.3719	0.3591	0.3519
7B	Х	0.3264	0.3327	0.3324	0.3268
	Y	0.3551	0.3650	0.3519	0.3430
7C	Х	0.3210	0.3264	0.3268	0.3218
	Υ	0.3468	0.3551	0.3430	0.3353
7D	Х	0.3164	0.3210	0.3218	0.3175
	Y	0.3395	0.3468	0.3353	0.3283

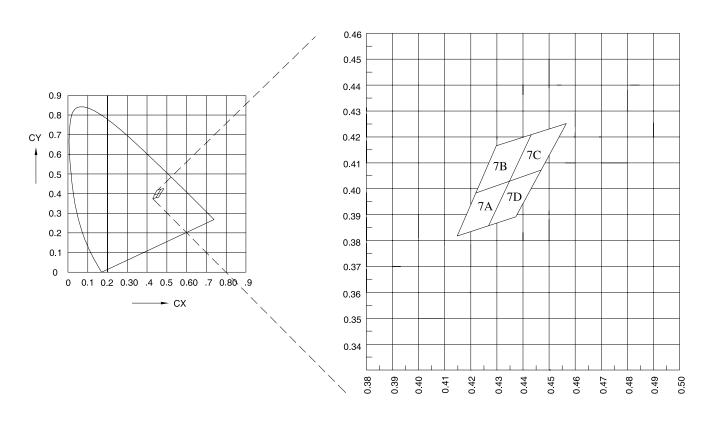
Note: X. Y

Tolerance each Bin limit is ±0.01





Chromaticity Coordinates & Bin Grading Diagram:



Part Number Table

LED Chip		Lens Colour	Part Number	
Material	Material Colour Coordinates			
InGaN/Sapphire	Warm white	Yellow diffused	703-0121	

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