

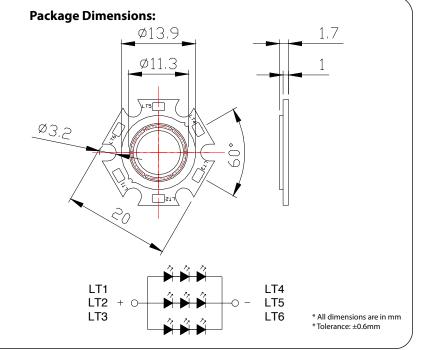


Features:

- Pb-Free soldering application
- RoHS compliance
- Multi-Chip package
- High reliability

Applications:

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



Ant Part No.	LEC	Lens Colour	
	Material	Colour Coordinates	Lens Colour
703-0119	InGaN/Sapphire	Warm white	Yellow diffused

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Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit
Power Dissipation*	PD	1260	mW
LED Junction Temperature*	Tj	120	℃
Reverse Voltage*	Vr	5	V
D.C. Forward Current*	If	350	mA
Peak Current (1 / 10 Duty Cycle, 0.1ms Pulse Width)*	If (Peak)	500	mA
Storage Temperature Range	Tstg.	-40 to +85	℃
Soldering Temperature (1.6mm from body)	Tsld.	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
		Φν	IF=1050mA	350	400		lm
Luminous Flux	Rank L1			350		450	
	Rank L2			450		550	
Forward Voltage		VF	IF=1050m		9.5		
	Rank V1			9.00		9.50	V
	Rank V2			9.51		10.00	
	Rank V3			10.01		10.50	
Correlated Colour Temperature		ССТ	IF=1050mA	2875	3000		К
CIE Chromaticity Coordinates: X Axis		х	IF=1050mA		0.4338		
CIE Chromaticity Coordinates: Y Axis		Υ	IF=1050mA		0.4030		
Reverse Current		l _R	Vr=5V			50	μΑ
Colour Rendering Index		CRI	IF=1050mA		74		Ra
Viewing Angle at 50%			2θ1⁄2		120		Deg
Thermal Resistance Junction to Case		RӨл-с		15		°C/W	

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

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^{2.} Customer's special requirements are also welcome.



Typical Electrical & Optical Characteristics Curves:

(25°C Ambient temperature unless otherwise noted)



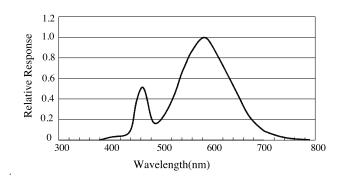
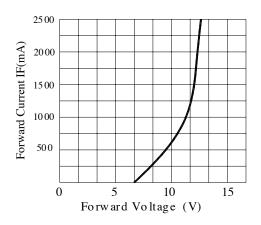
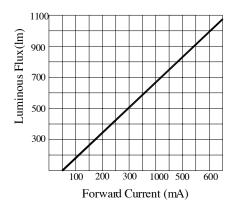


Fig.1 WARM WHITE LED Spectrum VS. WAVELENGTH

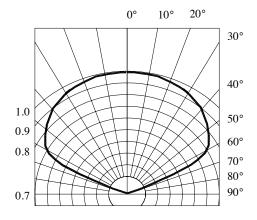




Forward Current VS. Applied Voltage

500 400 400 200 Re: =601/W Re: =501/W Re: =301/W Re: =301/W

Forward Current VS. Luminous Flux



Ambient Temperature VS. Forward Current

Radiation Diagram

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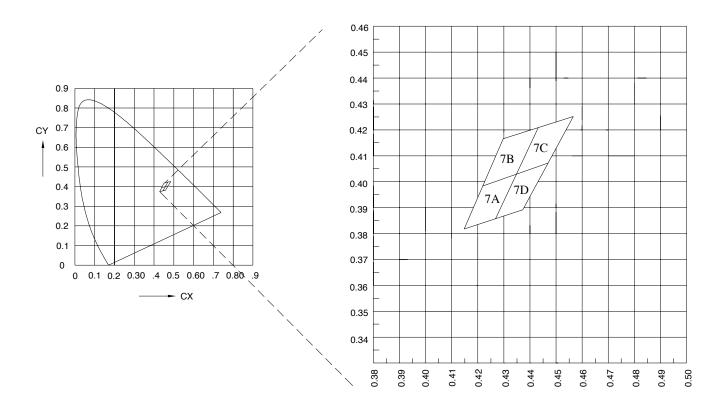
Chromaticity Coordinates Specifications for Bin Grading:

Bin	Rank				
7A	Х	0.4147	0.4221	0.4342	0.4259
	Υ	0.3814	0.3984	0.4028	0.3853
7B	Х	0.4221	0.4299	0.4430	0.4342
	Υ	0.3984	0.4165	0.4212	0.4028
7C	Х	0.4342	0.4430	0.4562	0.4465
	Υ	0.4028	0.4212	0.4260	0.4071
7D	Х	0.4259	0.4342	0.4465	0.4373
	Υ	0.3853	0.4028	0.4071	0.3893

Note: X. Y

Tolerance each Bin limit is ±0.01

Chromaticity Coordinates & Bin Grading Diagram:



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