



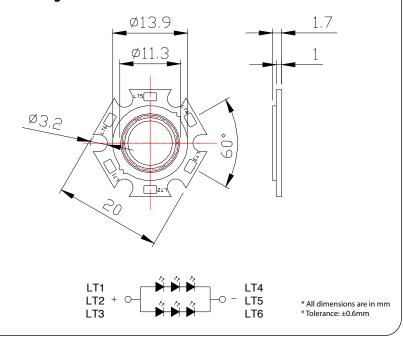
Features:

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

Applications:

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

Package Dimensions:



Ant Part No.	LEC	Lens Colour		
	Material	Colour Coordinates	Lens Colour	
703-0114	InGaN/Sapphire	White	Yellow diffused	

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Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit	
Power Dissipation*	PD	540	mW	
LED Junction Temperature*	Tj	120	℃	
Reverse Voltage*	Vr	5	V	
D.C. Forward Current*	If	150	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
Luminous Flux			IF=1050mA	200	250		
	Rank L1	Ф٧		200		250	lm
	Rank L2			250		300	
			IF=1050m		9.5		
Forward Voltage	Rank V1	VF		9.00		9.50	\Box_{v}
	Rank V2			9.51		10.00	v
	Rank V3			10.01		10.50	
Correlated Colour Temperature		ССТ	IF=1050mA	5250	5750		K
CIE Chromaticity Coordinates: X Axis		Х	IF=1050mA		0.3287		
CIE Chromaticity Coordinates: Y Axis		Υ	IF=1050mA		0.3417		
Reverse Current		l _R	Vr=5V			50	μΑ
Colour Rendering Index		CRI	IF=1050mA		72		Ra
Viewing Angle at 50%			2θ½		120		Deg
Thermal Resistance Ju	nction to Case		R Ө л-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)



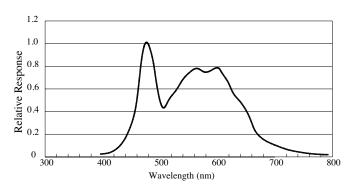
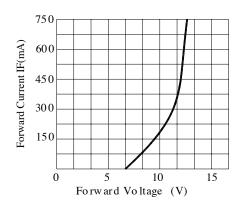
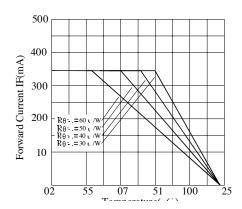


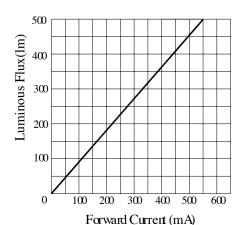
Fig.1 WHITE LED Spectrum VS. WAVELENGTH



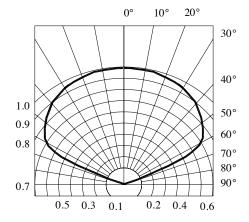
Forward Current VS. Applied Voltage



Ambient Temperature VS. Forward Current



Forward Current VS. Luminous Flux



Radiation Diagram

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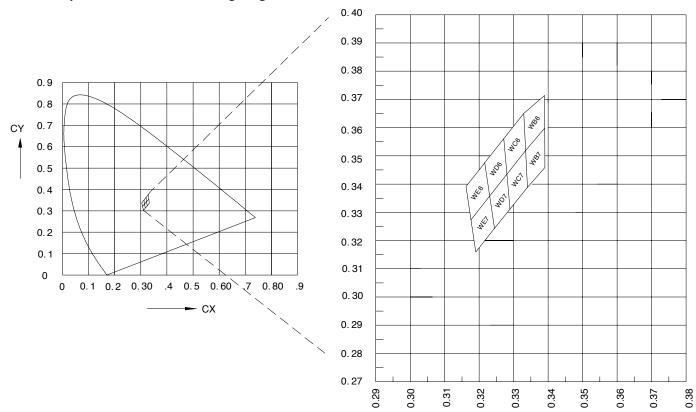
Chromaticity Coordinates Specifications for Bin Grading:

Bin	Rank					Bin	Rank				
WB6	Х	0.3327	0.3394	0.3390	0.3324	WB7	Х	0.3324	0.3390	0.3385	0.3324
	Υ	0.3650	0.3719	0.3591	0.3519		Υ	0.3519	0.3591	0.3465	0.3388
WC6	Χ	0.3264	0.3327	0.3324	0.3268	WC7	Χ	0.3268	0.3324	0.3324	0.3272
	Υ	0.3551	0.3650	0.3519	0.3430		Υ	0.3430	0.3519	0.3388	0.3305
WD6	Χ	0.3210	0.3264	0.3268	0.3218	WD7	Χ	0.3218	0.3268	0.3272	0.3227
	Υ	0.3468	0.3551	0.3430	0.3353		Υ	0.3353	0.3430	0.3305	0.3233
WE6	Х	0.3164	0.3210	0.3218	0.3175	WE7	Х	0.3175	0.3218	0.3227	0.3186
	Υ	0.3395	0.3468	0.3353	0.3283		Υ	0.3283	0.3353	0.3233	0.3169

Note: X. Y

Tolerance each Bin limit is ±0.01

Chromaticity Coordinates & Bin Grading Diagram:



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