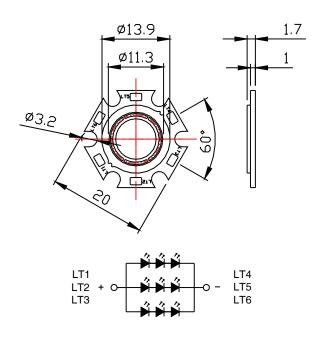




Package Dimensions:



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

Modify Issues:

- · Package Dimensions: revised polarity mark
- Electrical & Optical Characteristics: revised luminous flux, correlated colour, temperature & forward voltage data.
 Add luminous flux & forward voltage rank
- · Add bin grading: WE6, WE7

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	μΑ
Peak Current (1 / 10 Duty Cycle, 0.1ms Pulse Width)*	If (Peak)	1,000	mA
Storage Temperature Range	Tstg.	-40 to +85	°C
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
				700	800		lm
Luminous Flux	Rank L1	Ф۷	IF=1,050mA	700		800	
	Rank L2			800		900	
Forward Voltage					9.5		V
	Rank V1	VF	IE-4.050m	9		9.5	
	Rank V2		VF	IF=1,050m	9.51		10
	Rank V3			10.01		10.5	<u> </u>
Correlated Colour Tem	Correlated Colour Temperature		IF=1,050mA	5,250	5,750		K
	CIE Chromaticity Coordinates: X Axis		IF=1,050mA		0.3287		
CIE Chromaticity Coordinates: Y Axis		Y	IF=1,050mA		0.3417		
Reverse Current		lr	Vr=5V			50	μA
Colour Rendering Index		CRI	IF=1,050mA		72		Ra
Viewing Angle at 50%			2θ½		120		Deg
Thermal Resistance	Thermal Resistance Junction to Case				15		°C / W

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

Typical Electrical & Optical Characteristics Curves:

(25°C Ambient temperature unless otherwise noted)

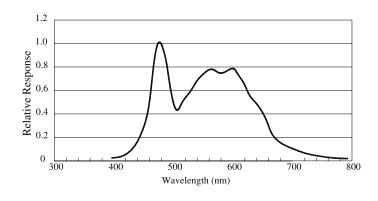
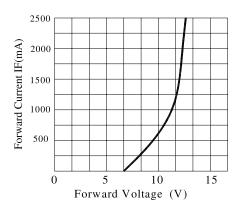


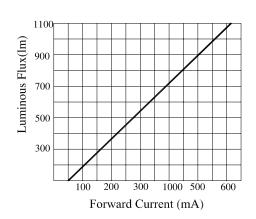
Fig.1 WHITE LED Spectrum VS. WAVELENGTH

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

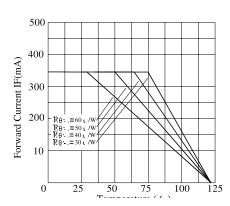




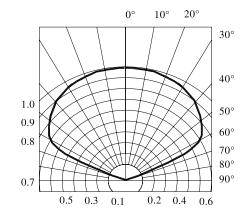
Forward Current VS. Applied Voltage



Forward Current VS. Luminous Flux



Ambient Temperature VS. Forward Current



Radiation Diagram

Chromaticity Coordinates Specifications for Bin Grading:

Bin	Rank			Bin	Rank						
WB6	Х	0.3327	0.3394	0.3390	0.3324	WB7	Χ	0.3324	0.3390	0.3385	0.3324
VVDO	Υ	0.3650	0.3719	0.3591	0.3519		Υ	0.3519	0.3591	0.3465	0.3388
WC6	Х	0.3264	0.3327	0.3324	0.3268	WC7	Χ	0.3268	0.3324	0.3324	0.3272
VVCO	Υ	0.3551	0.3650	0.3519	0.3430		Υ	0.3430	0.3519	0.3388	0.3305
WD6	Х	0.3210	0.3264	0.3268	0.3218	WD7	Х	0.3218	0.3268	0.3272	0.3227
VVD6	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

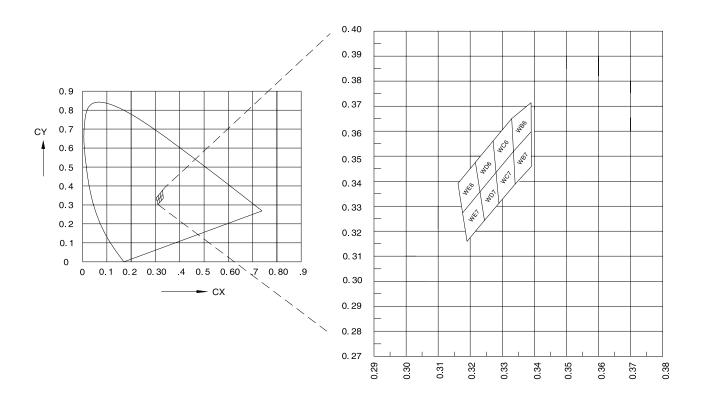
Note: X. Y

Tolerance each Bin limit is ±0.01





Chromaticity Coordinates & Bin Grading Diagram:



Part Number Table

LE	ED Chip	Lens Colour	Part Number
Material	Colour Coordinates		
InGaN/Sapphire	White	Yellow diffused	703-0120

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