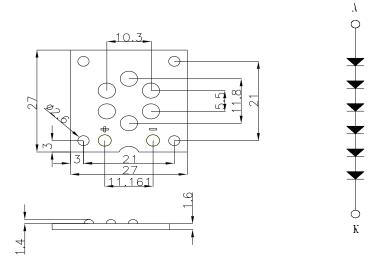




Package Dimensions:



All dimensions are in mm Tolerance: ±0.25mm

Features:

- Excellent transiting heat from LED chip operating under 350mA
- · High luminous output
- No UV

Applications:

- · Reading lights
- Portable flashlight
- · Uplighters & downlighters
- Garden lighting
- LCD backlights / light guides
- · General lightingPortable flashlight

Absolute Maximum Ratings at Ta=25°C

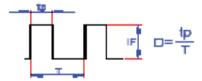
Parameter	Rating	Unit
Power Dissipation	6,650	mW
LED Junction Temperature	120	°C
Reverse Voltage	5	V
D.C. Forward Current	350	mA
Pulsed Forward Current (tp ≤ 100μs, Duty cycle = 0.005) × 1	700	mA
Operating Temperature Range	-40 to +75	°C
Storage Temperature Range	-40 to +100	°C
Soldering Temperature	Reflow Soldering : 260°C for 10sec Hand Soldering: 350°C for 3sec.	







Duty Cycle:



- · Proper current derating must be observed to maintain junction temperature below the maximum.
- All products no sensitive to ESD damage (6000 Volts by HBM condition)
- Be careful with a powered up current limited power supply, because of current spikes during power up and/or connection.
 Best practice is to connect the LED then turn up the voltage gradually. People building their own power supplies should design for minimum current spikes during power up and connection.
- For best results the customer needs to provide proper control of the thermal path, protect against electrical overstress conditions and ensure they are properly attached to the heat sink.
- It is strongly recommended that the temperature of lead does not exceed 55°C.
- · It is strongly recommended to apply an electrically isolated heat conducting film between the slug and contact surfaces

Electrical & Optical Characteristics

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Luminous Flux	ФV	IF=350mA	300	400		lm
Efficiency	η	IF=350mA		70		Lm/W
CIE Chromaticity Coordinates: X Axis	Х	IF=350mA		0.4578		
CIE Chromaticity Coordinates: Y Axis	Y	IF=350mA		0.4101		
Forward Voltage	VF	IF=350mA	15		20	V
Correlated Colour Temperature	CCT	IF=350mA		2750		K
Thermal Resistance Junction to Case	Rθ _{J-C}	IF=350mA		9		°C/W
Reverse Current	IR	VF=5V			50	μA
Viewing Angle at 50% IV	2θ½	IF=350mA		120		Deg.

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)

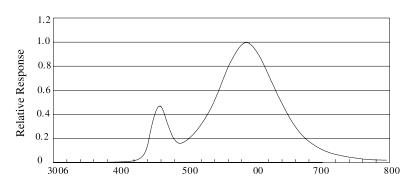
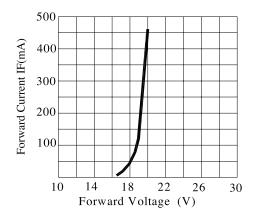
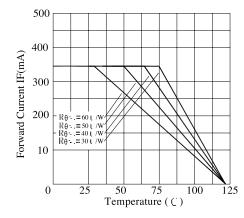


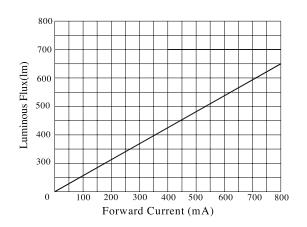
Fig.1 WHITE LED Spectrum VS. WAVELENGTH



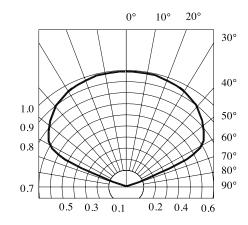
Forward Current VS. Applied Voltage



Ambient Temperature VS. Forward Current



Forward Current VS. Luminous Flux



Radiation Diagram





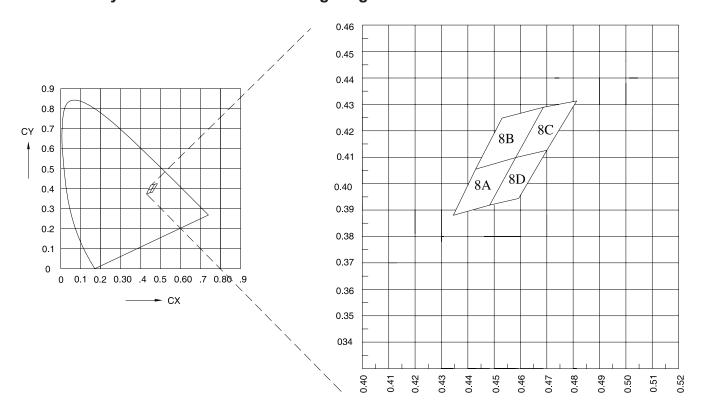
Chromaticity Coordinates Specifications for Bin Grading:

Bin	Rank				
8A	Х	0.4345	0.4430	0.4582	0.4483
	Υ	0.3880	0.4055	0.4099	0.3919
8B	Х	0.4430	0.4530	0.4687	0.4582
	Y	0.4055	0.4248	0.4289	0.4099
8C	Х	0.4582	0.4687	0.4813	0.4700
	Y	0.4099	0.4289	0.4319	0.4126
8D	Х	0.4483	0.4582	0.4700	0.4593
	Y	0.3919	0.4099	0.4126	0.3944

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	Colour Coordinates			
InGaN/Metal	Warm white	Water clear	703-0123	

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