

High Power Emitter LED

P/N: EK3W3EAF (Warm White)

Under Development	
Mass production	●



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES



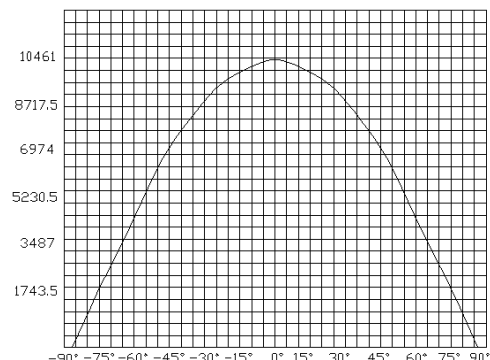
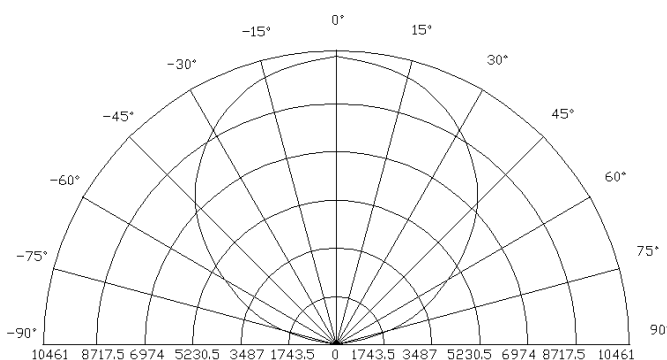
Features

- Long operating life
- Highest flux
- Available in White:2500K-25000K
- Lambertian radiation pattern
- More energy efficient than incandescent and most halogen lamps
- Low voltage DC operated
- Cool beam, safe to the touch
- Instant light (less than 100ns)
- Fully dimmable
- No UV
- Superior ESD protection
- Eutectic die bonding
- RoHS compliant

Applications

- Reading lights (car, bus, aircraft)
- LCD Backlights/light Guides
- Fiber optic alternative/ Decorative / Entertainment
- Mini-accent/Up lighters/Down lighters/ Orientation
- Indoor/Outdoor commercial and Residential Architectural
- Cove/Under shelf/Task
- Bollards/Security/Garden
- Portable (flashlight, bicycle)
- Edge-lit signs (Exit, point of sale)
- Automotive Exit (Stop-Tail-Turn,CHMSL, Mirror Side Repeat)
- Traffic signaling / Beacons / RailCrossing and Wayside

Radiation Pattern



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Typical Optical/ Electrical Characteristics @T_J=25℃

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	IF=800mA	3.2	--	4.2	V
Reverse Current	I _R	VR=5v	--	--	50	uA
50% Power Angle	2θ1/2	IF=800mA	110	--	140	deg
Luminous Intensity	φ _v	IF=800mA	129.5		--	lm
Recommend Forward Current	I _F	--	--	800	--	mA
Chromaticity	T _c	IF=800mA	3000		3500	k
Thermal Resistance,Junction to Case	R _{JP}	IF=800mA	--	10	--	℃/w

The sample delivers goods data

Item	Symbol	Condition	Min.	Avg.	Max.	Unit
Luminous Intensity	Φ_v	IF=800mA				lm
50% Power Angle	2 θ 1/2					deg
Forward Voltage	V _F					v
Chromaticity	Tc					k
White Color Region	--					
ChromaticityCoordinates	X=--			Y=--		

Notes:

- 1.Tolerance of measurement of forward voltage±0.1V.
- 2.Tolerance of measurement of peak Wavelength±2.0nm.
- 3.Tolerance of measurement of luminous intensity±15%.

Absolute Maximum Rating

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	I _F	800	mA
Peak Forward Current*	I _{FP}	1000	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	3000	mW
Electrostatic discharge	E _{SD}	±2000	V
Operation Temperature	T _{OPR}	-40~+80	℃
Storage Temperature	T _{STG}	-40~+100	℃
Lead Soldering Temperature*	T _{SOL}	Max. 260℃ for 3sec Max.	

*IFP Conditions: Pulse Width≤10msec duty≤1/10

* All high power emitter LED products mounted on aluminum metal-core printed circuit board, can be lighted directly, but we do not recommend lighting the high power products for more than 5 seconds without a appropriate heat dissipation equipment.

* Re-flow,wave peak and soak-stannum soldering etc.is not suitable for this products.

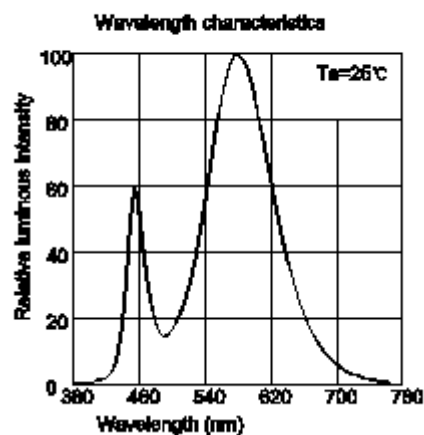
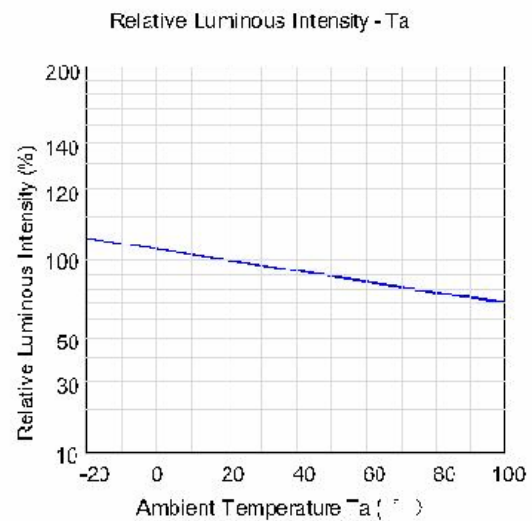
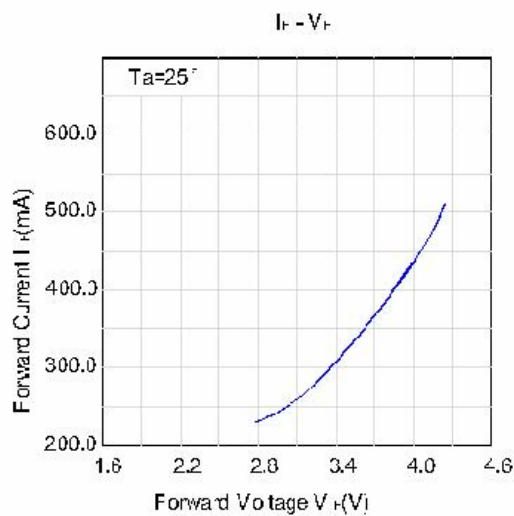
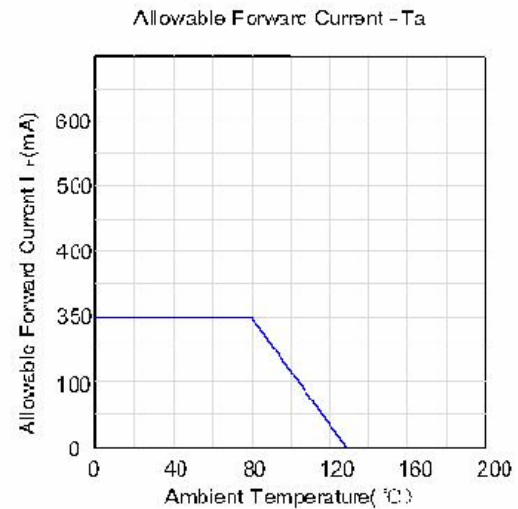
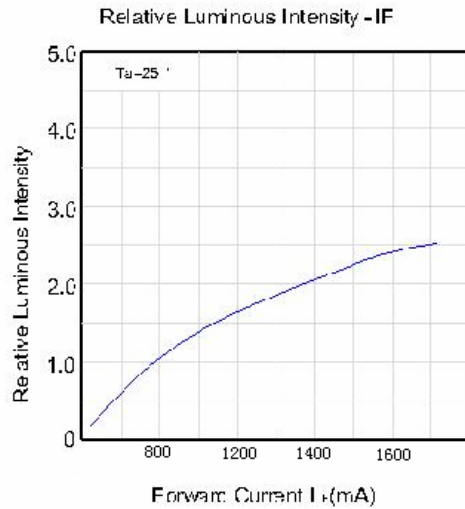
* Suggest to solder it by professional high power LED soldering machine.

* Can use invariable-temperature searing-iron with soldering condition:≤260 degree less than 3 seconds.

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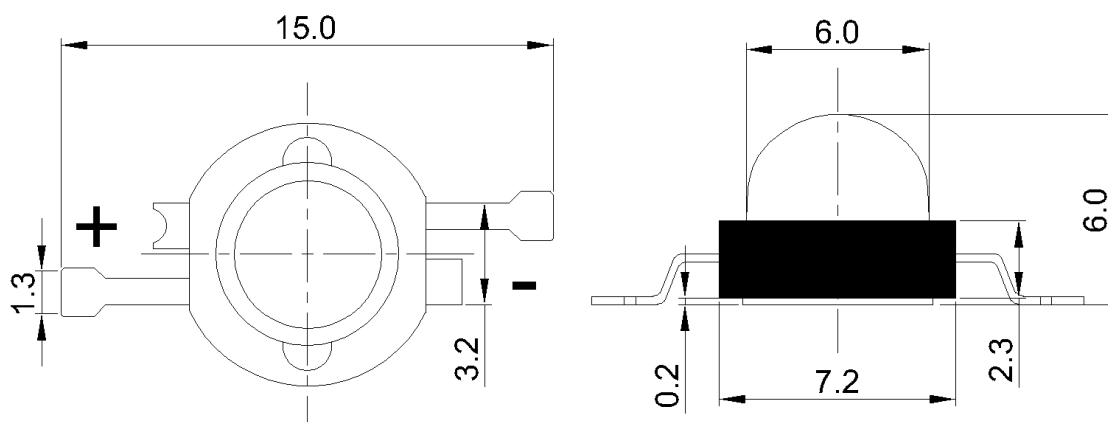
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Typical Optical/Electrical Characteristics Curves ($T_J=25^{\circ}\text{C}$ Unless Otherwise Noted)



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Package Dimensions



Notes:

1. All dimension units are millimeters.
2. All dimension tolerance is $\pm 0.2\text{mm}$ unless otherwise noted.

Tape Specifications(Units:mm)

