High Power Emitter LED P/N: EK3W3EAF (Warm White)



ATTENTION

OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES



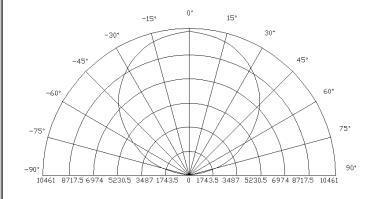
Features

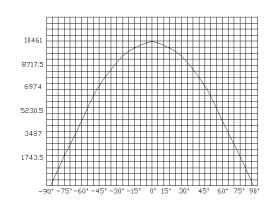
- Long operating life
- Highest flux
- Available in White:2500K-25000K
- Lambertian radiation pattern
- More energy efficient than incandescent and most halogen lamps
- Low voltage DC operated
- Cool beam, safe to the touch
- Instant light (less than 100ns)
- Fully dimmable
- No UV
- Superior ESD protection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







High Power Emitter LED P/N: EK3W3EAF (Warm White)

Typical Optical/ Electrical Characteristics @T_J=25 ℃

Item	Symbol	Condition	Min.	Тур.	Max.	Unit	
Forward Voltage	V_{F}	IF=800mA	3.2		4.2	V	
Reverse Current	I _R	VR=5v			50	uA	
50% Power Angle	201/2	IF=800mA	110		140	deg	
Luminous Intensity	φν	IF=800mA	129.5			lm	
Recommend Forward Current	I _F			800		mA	
Chromaticity	Тс	IF=800mA	3000		3500	k	
Thermal Resistance, Junction to Case	RJP	IF=800mA		10		°C/w	
The sample delivers goods data							
Item	Symbol	Condition	Min.	Avg.	Max.	Unit	
Luminous Intensity	φν					lm	
50% Power Angle	201/2	JE-000 A				deg	
Forward Voltage	V_{F}	IF=800mA				٧	
Chromaticity	Тс					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	$^{\circ}$	
Storage Temperature	T _{STG}	-40~+100	$^{\circ}$	
Lead Soldering Temperature*	T _{SOL}	Max. 260℃ for 3sec Max.		

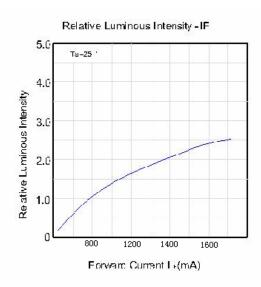
^{*}IFP Conditions: Pulse Width≤10msec duty≤1/10

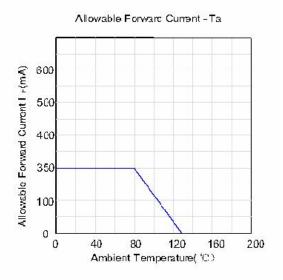
- * All high power emitter LED products mounted on aluminum metal-core printed circuit board, can be lighted directly, but we do not recommend lighting the high power products for more than 5 seconds without a appropriate heat dissipation equipment.
- * Re-flow,wave peak and soak-stannum soldering etc.is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

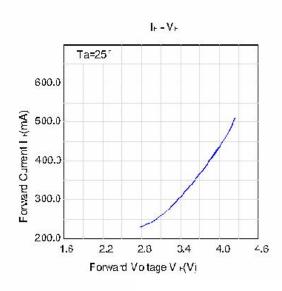


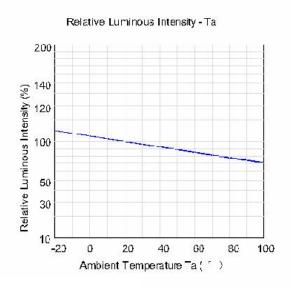
High Power Emitter LED P/N: EK3W3EAF (Warm White)

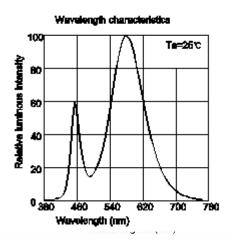
Typical Optical/Electrical Characteristics Curves (T_J=25℃ Unless Otherwise Noted)







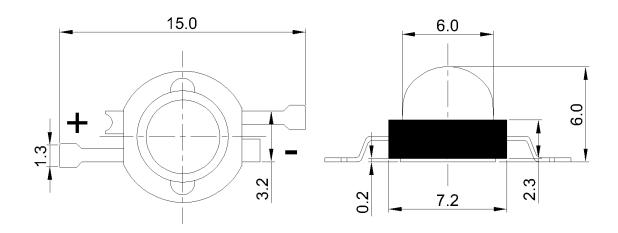






High Power Emitter LED P/N: EK3W3EAF (Warm White)

Package Dimensions



Notes:

- 1. All dimension units are millimeters.
- 2. All dimension tolerance is ±0.2mm unless otherwise noted.

Tape Specifications(Units:mm)

