Under Development

Mass production

High Power Emitter LED P/N: EF5W1EAF (Warm White)



ATTENTION

OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES



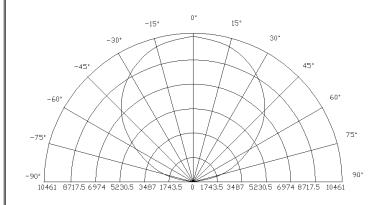
Features

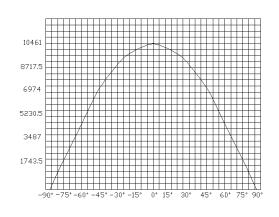
- Long operating life
- Highest flux
- Available in White:2500K-25000K
- Lambertian radiation pattern
- More energy efficient than incandescent and most halogen lamps
- Low voltage DC operated
- Cool beam, safe to the touch
- Instant light (less than 100ns)
- Fully dimmable
- No UV
- Superior ESD protection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







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Typical Optical/ Electrical Characteristics @T_J=25 $^{\circ}$ C

Item	Symbol	Condition	Min.	Тур.	Max.	Unit		
Forward Voltage	V_{F}	IF=350mA	3.0	3.0		V		
Reverse Current	I _R	VR=5v 50		50	uA			
50% Power Angle	201/2	IF=350mA	110		140	deg		
Luminous Intensity	φν	IF=350mA	67.2			lm		
Recommend Forward Current	I _F		350			mA		
Chromaticity	Тс	IF=350mA 2800		3500	k			
Thermal Resistance, Junction to Case	RJP	IF=350mA		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 050 A				deg		
Forward Voltage	V_{F}	IF=350mA				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	350	mA		
Peak Forward Current*	I _{FP}	500	mA		
Reverse Voltage	V_R	5	V		
Power Dissipation	P _D	1000	mW		
Electrostatic discharge	E _{SD}	±2000	V		
Operation Temperature	T _{OPR}	-40~+80	$^{\circ}$		
Storage Temperature	T _{STG}	-40~+100	$^{\circ}\!\mathbb{C}$		
Lead Soldering Temperature*	T _{SOL}	Max. 260℃ for 3sec Ma	Max. 260°C 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.

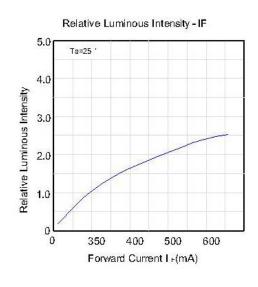


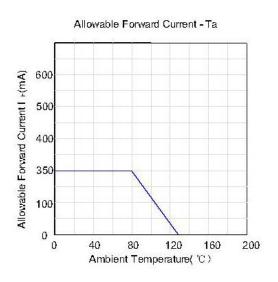
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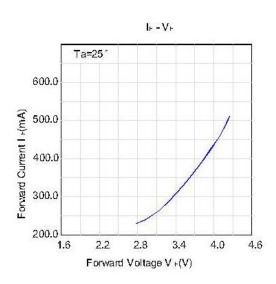
Mass production

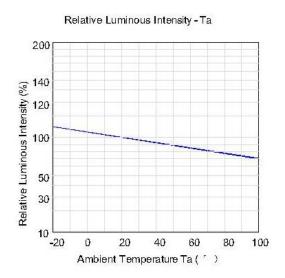
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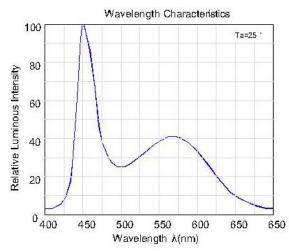
Typical Optical/Electrical Characteristics Curves (T_J=25℃ Unless Otherwise Noted)











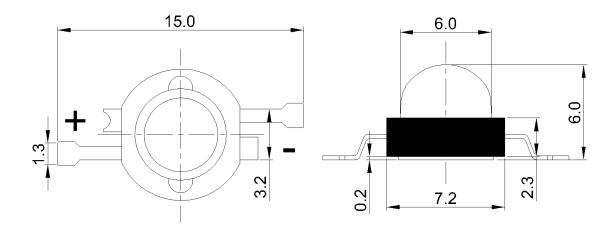


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Package Dimensions



Notes:

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

Tape Specifications(Units:mm)

