Under Development	
Mass production	●

High Power Emitter LED
P/N: EF3Y1EAC

ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

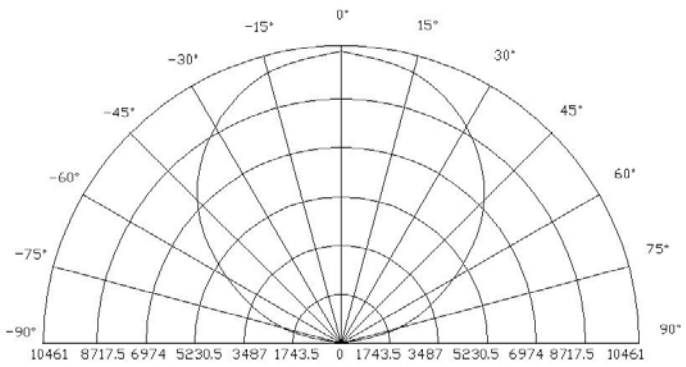
Features

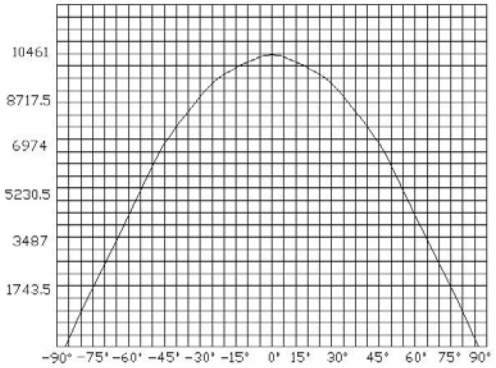
- Long operating life
- Highest flux
- Available in Red
- Lambertian radiation pattern
- More energy efficient than incandescent and most halogen lamps
- Low voltage DC operated
- Cool beam, safe to the touch
- Instant light (less than 100ns)
- Fully dimmable
- No UV
- Superior ESD protection
- Eutectic 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 commerclal and Residentlal 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=350mA	2.0	--	2.8	V
Reverse Current	I_R	VR=5v	--	--	50	uA
50% Power Angle	2θ1/2	IF=350mA	110	--	140	deg
Luminous Intensity	φ_V	IF=350mA	32.8	34.9	--	lm
Recommend Forward Current	I_F	- -	--	350	--	mA
Wave Length	λ_d	IF=350mA	590	595	--	nm
Thermal Resistance,Junction to Case	RJP	IF=350mA	--	10	--	℃/w
The sample delivers goods data						
Item	Symbol	Condition	Min.	Avg.	Max.	Unit
Luminous Intensity	φ_V	IF=350mA				lm
50% Power Angle	2θ1/2				--	deg
Forward Voltage	V_F					v
Wave Length	λ_d					nm

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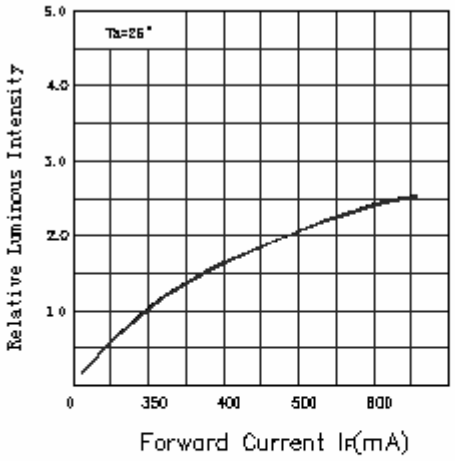
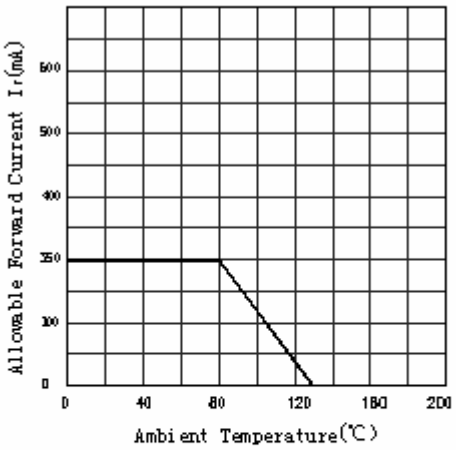
Typical Optical/Electrical Characteristics Curves
(T_J=25℃ Unless Otherwise Noted)

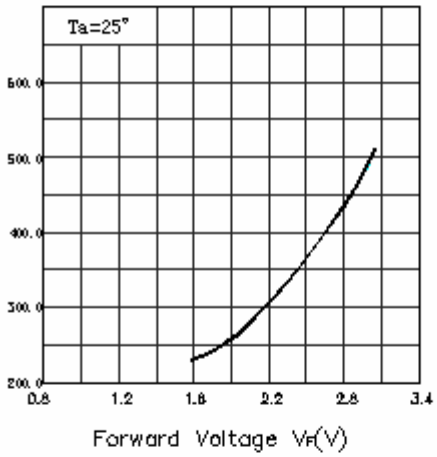
Relative Luminous Intensity - Ir



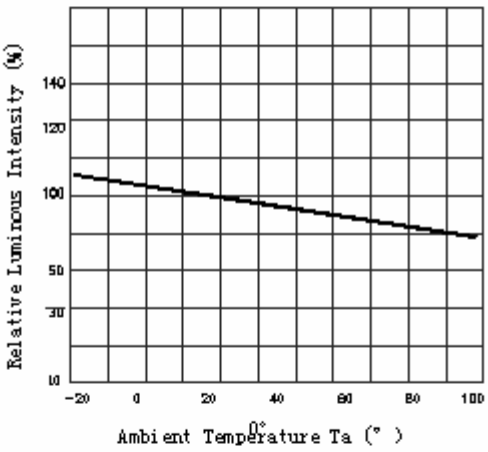
Allowable Forward Current - Ta



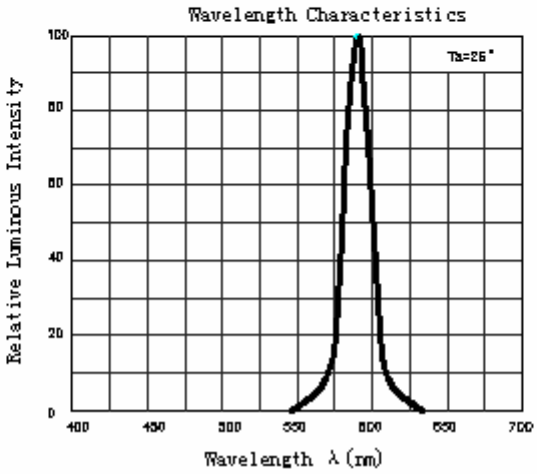
IF - VF



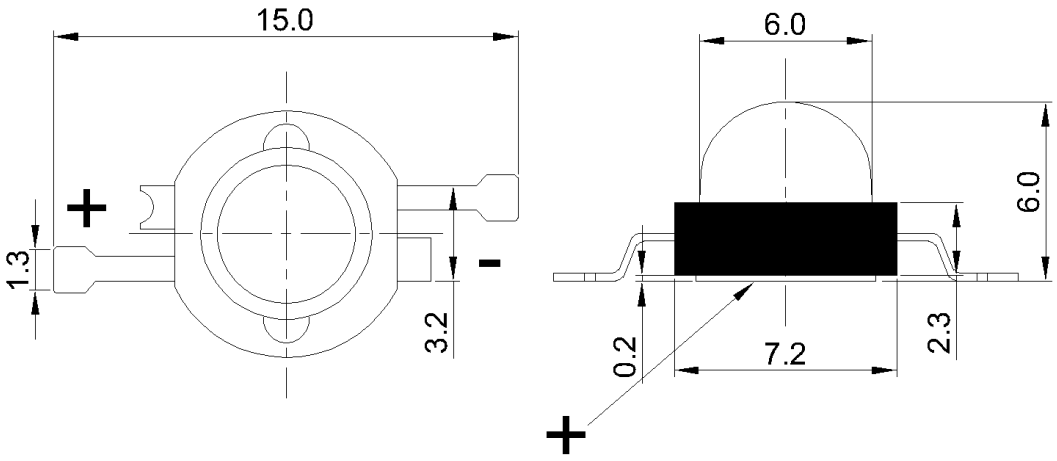
Relative Luminous Intensity - Ta



Wavelength Characteristics



Package Dimensions



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

Tape Specifications(Units:mm)