

OF-HPW-5EL WHITE



ATTENTION

OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES



Features

- Long operating life
- Highest flux
- Wide range of colors: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

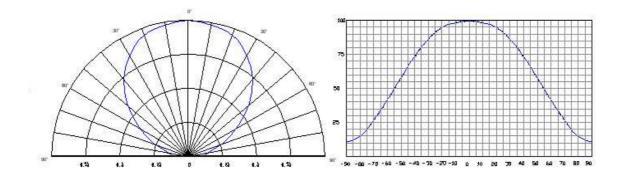
Applications

- 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

optoflash

5W HIGH POWER LED



■Typical Optical/ Electrical Characteristics @T_a=25°C

Item	Symbol	Condition	Min.	Тур.	Mix.	Unit
Forward Voltage	V _F	IF=1.2A	3.4	3.6	4.0	V
Reverse Current	I _R	VR=5v		1	50	uA
50% Power Angle	201/2	IF=1.2A		140		deg
Luminous Intensity	φν	IF=1.2A	168.4	175	218.9	lm
Recommend Forward Current	I _F		1	1.2	I	Α
Chromaticity	Тс	IF=1.2A	5000	6000	7000	K
Chromaticity Coordinates	X	IF=1.2A				
	Y	IF=1.2A				
Thermal Resistance, Junction to Case	R_{JP}	IF=1.2A		15		K//W

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%.



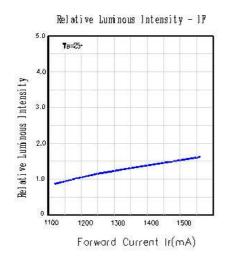
■ Absolute Maximum Rating

Item	Symbo	Absolute Maximum Rating	Unit	
Forward Current	I _F	1.2	А	
Peak Forward Current*	I _{FP}	1.5	А	
Reverse Voltage	V_R	5	V	
Power Dissipation	P _D	5	W	
Electrostatic discharge	E _{SD}	±4500	V	
Operation Temperature	T _{OPR}	-40~+80		
Storage Temperature	T _{STG}	-40~+100		
Lead Soldering Temperature*	T _{SOL}	Max. 260 for 6sec Max.		

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

■ Typical Optical/Electrical Characteristics Curves

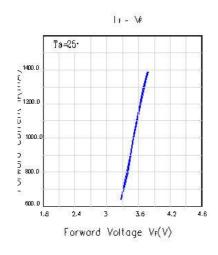
(Ta=25°C Unless Otherwise Noted)

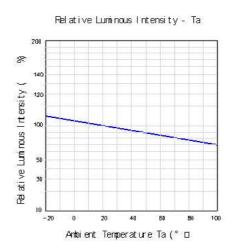


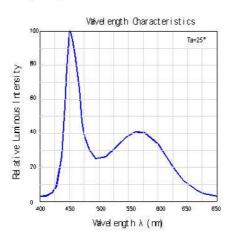


^{*} All high power emitter LED products mounted on aluminum metal-core printed circuit board, can be lighted directly, but we do not recommend lighting the high power products for more than 5 seconds without a appropriate heat dissipation equipment.

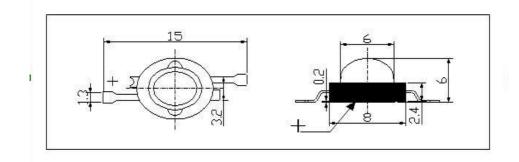








■ Package Dimensions





Notes: 1. All dimension units are millimeters.

- 2. All dimension tolerance is ±0.2mm unless otherwise noted.
- 3. The brass column of heat sink of the high power LED is Anode. Please pay more attention to the necessary installation when installing The heat dissipate on equipments and connecting the electric circuit in avoid of short circuit and destroying.

■Tape Specifications (Units: mm)

