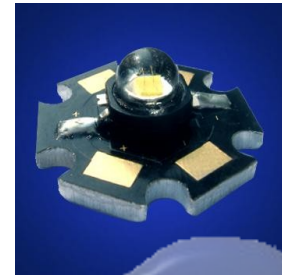


**5W HIGH POWER STAR LED**

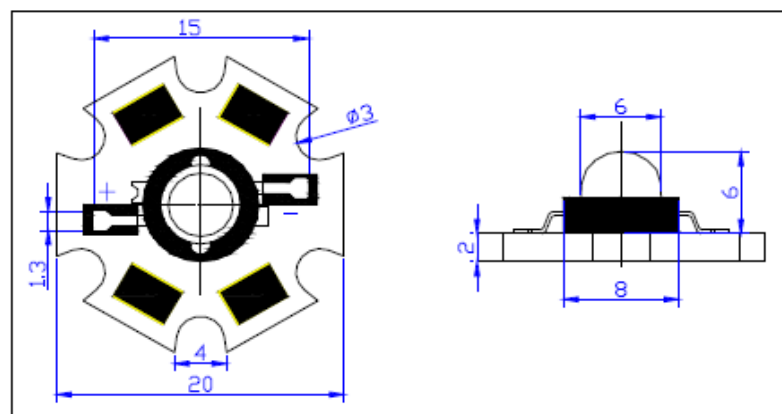
**ATTENTION**  
OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC  
DISCHARGE  
SENSITIVE  
DEVICES

**Features**

- Highest flux per LED family in the world
- Very long operating life (up to 100k hours)
- 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
- Fully dimmable
- No UV
- Superior ESD protection
- lower  $R_{th}$
- RoHS compliant—lead-free
- Instant light (less than 100ns )

**Applications**

- Portable (flashlight, bicycle)
- Reading lights(car, bus, aircraft)
- Orientation
- Mini-accent
- Decorative
- Fiber optic alternative
- Appliance
- Sign and channel letter
- Architectural detail
- Cove lighting
- Automotive exterior  
(Stop-Tail-turn, CHMSL,  
Mirror side repeat)
- Edge-lit signs(Exit, point of sale)

**Package Dimensions**

**Notes:**1. All dimension units are millimeters.

2. All dimension tolerance is  $\pm 0.2$ mm unless otherwise noted.

**Absolute Maximum Ratings at Ta=25°C**

Item	Symbol	Absolute Maximum Rating	Unit
DC Forward Current	$I_f$	700	mA
Peak Forward Current	$I_f$	900	mA
Reverse Voltage	$V_r$	5	V
Power Dissipation	$P_d$	2000	mw
Electrostatic discharge	ESD	±4500	V
Operation Temperature	$T_{opr}$	-40~+80	°C
Storage Temperature	$T_{stg}$	-40~+100	°C
Lead Soldering Temperature	$T_{sol}$	Max.260°C for 6 seconds Max.	

**Notes:**

\* IFP Conditions: pulse Width ≤ 10msec.

\* 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.

**Electrical Optical Characteristics at Ta=25°C**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Forward Voltage	$V_f$	6.0	---	7.0	v	$I_f=700mA$
Reverse Current	$I_r$	---	---	20	uA	$V_r=5v$
50% Power Angle	$2\theta_{1/2}$	---	140	---	deg	$I_f=700mA$
Luminous Intensity	$\phi_v$	240	---	280	lm	$I_f=700mA$
Chromaticity	$T_c$	6000	---	6500	K	$I_f=700mA$

**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%.

### Typical Electrical / Optical Characteristics Curves

