

# FIVE-TEN TECHNOLOGY CO., LIMITED



Tel: 0755-83539991 Fax: 0755-83531606 www.fiveten-led.com

P/N:FT-1W-CW

1W HIGHT POWER STAR LED



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



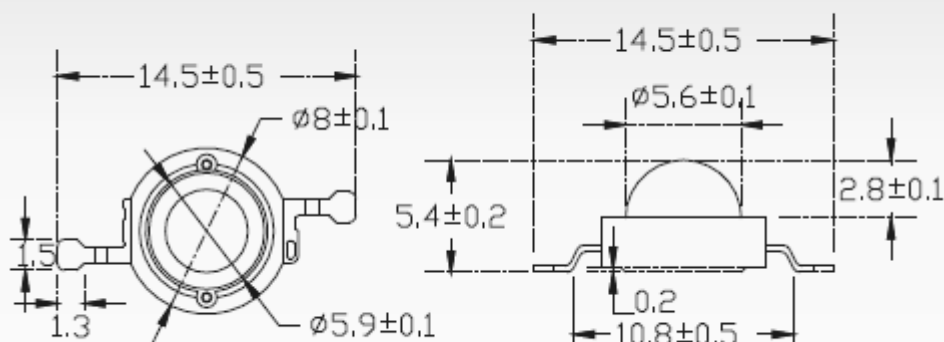
## Features

- 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)

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Notes:1. All dimension units are millimeters.

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

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## Absolute Maximum Ratings at Ta=25°C

Item	Symbol	Absolute Maximum Rating	Unit
DC Forward Current	$I_F$	350	mA
Peak Forward Current	$I_F$	700	mA
Reverse Voltage	$V_R$	5	V
Power Dissipation	$P_D$	1000	mw
Electrostatic discharge	ESD	4000	V
Operation Temperature	Topr	-40~+80	°C
Storage Temperature	Tstg	-40~+100	°C
LeadSoldering Temperature	Tsol	Max.260°C for 6 seconds Max.	

### Notes:

- \* IFP Conditions: pulse Width $\leq$ 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	$V_F$	3.0		3.4	v	$I_F=350mA$
Reverse Current	$I_R$	---	---	5	uA	$V_R=5v$
50% Power Angle	2 $\theta_{1/2}$		140		deg	$I_F=350mA$
Luminous Intensity	$\phi_v$	90		100	lm	$I_F=350mA$
Chromaticity	T c	5800		6200	K	$I_F=350mA$

**Notes:** 1.Tolerance of measurement of forward voltage $\pm$ 0.1V.

2.Tolerance of measurement of peak Wavelength $\pm$ 2.0nm.

3.Tolerance of measurement of luminous intensity $\pm$ 15%.



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## Typical Electrical / Optical Characteristics Curves

