

### THE SMALLEST LED MODULE WITH BAT WING OPTIC

**160°**

**IP67**

1 cut  
REPLICABLE

**0.36W**

**DC12V**

**42,500H**  
LIFETIME

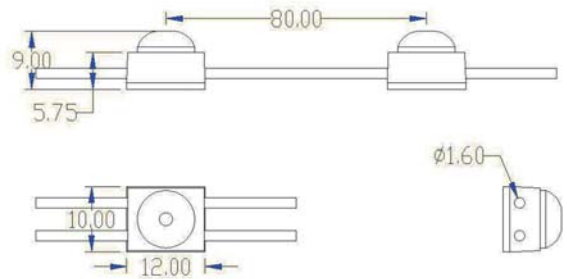
**CE**

**RoHS**

- Guaranteed life time up to 42,500 hours with 70% lighting output  
\*24 hour constant load may result less operating hours with lower lighting output. Estimated lifetime is based on normal usage of 10 hours per day.
- Uniform color temperature by strictly controlled system of bin rank
- Newest technology on injection to improve waterproof ability
- Optimal for 4cm application
- Maximum efficient solution at price point

#### PHYSICAL

Length : 12mm  
 Width : 10mm  
 Thickness : 9mm  
 Weight : 1.8g  
 Module Pitch : 80mm



#### OPTICAL CHARACTERISTICS

| Available Color | Luminous Flux(lm) |         |     | CCT (Kelvin) & Dominant Wave Length |         |         | Viewing Angle<br>2θ <sub>1/2</sub> |
|-----------------|-------------------|---------|-----|-------------------------------------|---------|---------|------------------------------------|
|                 | Min               | Typical | Max | Min                                 | Typical | Max     |                                    |
| Cool White      | 30                | 35      | 35  | 9,000K                              | 11,000K | 11,000K | 160                                |
| Daylight White  | 30                | 35      | 35  | 5,000K                              | 6,500K  | 6,500K  | 160                                |
| Warm White      | 27                | 32      | 32  | 2,700K                              | 3,500K  | 3,500K  | 160                                |

\*CRI (Color Rendering Index) for white product types is 70 / \*Luminous Flux measuring equipment is CAS140B  
 \*Viewing angle is the off axis angle from lamp centerline where the luminous intensity is half of the peak value / \*CCT 5% tester tolerance  
 \*Dominant wavelength is derived from the CIE 1931 Chromaticity diagram and represents the perceived color  
 \*Color temperature for white is strictly controlled by bin rank system and it consists of three ranks which should not be used simultaneously.

# Specifications

## STAR F01

### ELECTRICAL CHARACTERISTICS

Current dissipation : 30 mA  
Power Consumption : 0.36W  
Operating power : DC 12V  
Quantity for maximum connection in serial : 50 modules  
Electronic dimming control supported

### THERMAL

Cooling : Ambient air  
Operating temperature : -20~50°C  
Storage temperature : -20~60°C

### CONSTRUCTION

LED Lamp : 2835 package  
Body : ABS, UL94-0  
Lens : PC  
PCB : FR-4 double layered  
Lead wire : 22 AWG  
3M tapes on back

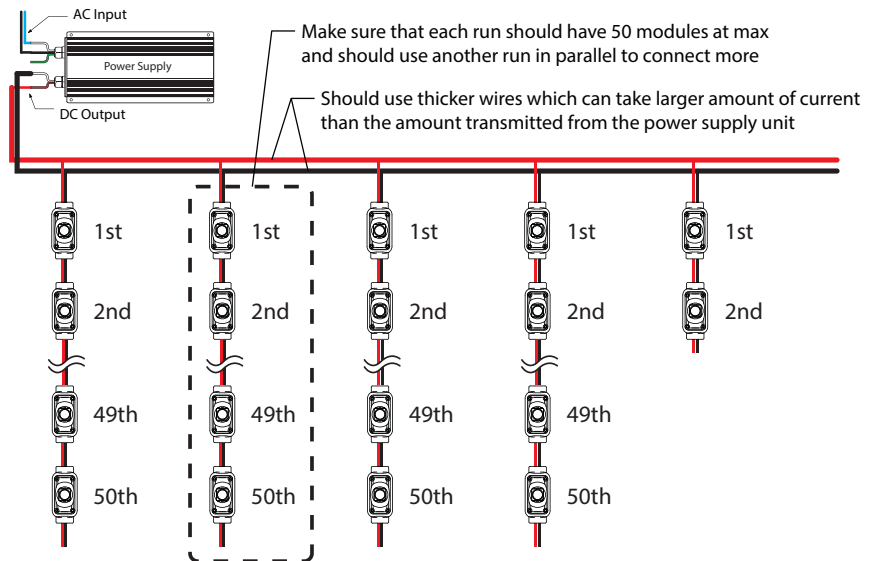
### APPLICATIONS

Shallow channel letters with depth more than 40mm  
Reverse halo lighting  
Border lighting  
Point-Of-Purchasing signage  
Art & sculpture and cove lighting

### APPROVAL

EN 55015/A2 : 2009  
EN 61547/2009  
EN 62031/2008  
EN 62471/2006

### WIRING GUIDE



### PACKAGING

Anti-static gray-colored vinyl bag : 200modules(16.00meter, 52.49feet)  
Master carton box : 2400modules(12 vinyl bags, 192.00meter, 629.92feet)

*Specifications subject to change without notice*