



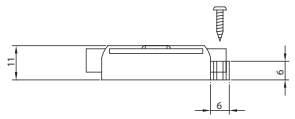
1W HIGH POWER LED MODULE FOR LARGE SCALE APPLICATION

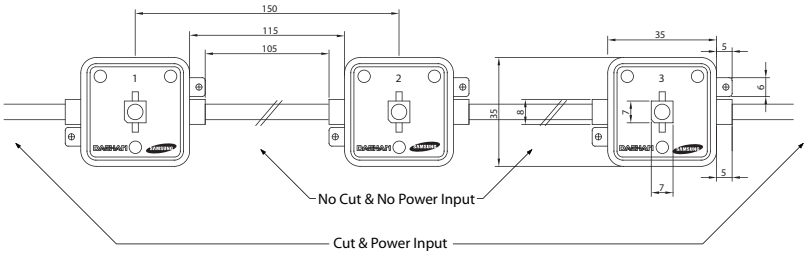
The SUN 01 is transparent LED module lighting system perfect for people who seeks for high power led module for various applications. Its consistant white color temperature makes itself highly reliable to be used for outdoor lighting, not only for signs. With output of 37LPW, lumen per watt, the SUN 01 is clearly visible from far distance and even in daylight, making it is highly suitable for large-scale application and outdoor productions. Samsung has joined us to develop a high power led module with their specialized thermal control technique, which features allows SUN 01 to be operative at lowest possible temperature without any loss of lighting output. You will realize what the word outstanding should mean when you see them on.

- Guaranteed life time up to 42,500 hours with 70% lighting output
- High power 1 watt Samsung LED lamp
- Advanced thermal control for LED lamp based on PWM constant current technology
- Prevents overheat if temperature of lamp exceeds 160 celsius
- Weather proof system
- Semi-transparent polyurethane body for tough environment
- Reverse voltage protection to minimize hassles during installation
- 70% more energy efficiency compared to conventional sign lighting source

PHYSICAL

Length : 35mm
Width : 35mm
Thickness : 11mm
Wight : 25g
Module Pitch : 150mm





OPTICAL CHARACTERISTICS (White)

Available Color	Luminous Flux (lm)			Dominant Wave Length & Color Temperature			Viewing Angle
	Min	Typical	Max	Min	Typical	Max	$2\Theta_{1/2}$
White	36	40	43	5,800K	6,500K	7,800K	120
Green	39	43	45	525nm	527nm	530nm	120
Blue	7	8	10	455nm	460nm	465nm	120

*CRI (Color Rendering Index) for white product types is 70 / *Spectral width at half of the peak intensity / *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

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ELECTRICAL CHARACTERISTICS

Current dissipation : 160mA (3 Modules)
Power Consumption : 3.84W (3 Modules)
Operating power : DC 24V
Quantity for maximum connection in serial : 30 modules
Electronic dimming control supported
PWM Constant current drive (Pulse Width Modulation)
Reverse voltage protection
Operative by 3 modules, cannot be cut nor input power between module number 1 and 3

THERMAL

Cooling : Ambient air
Maximum operating temperature : 60˚C (140˚F)
Minimum operating temperature : -25˚C (-13˚F)
Maximum storage temperature : 60˚C (140˚F)
Minimum storage temperature : -30 C (-22 F)

SAFETY FEATURES

ESD Protection : Industry standard electro-static discharge protection
IP68 : Prevents water & dust penetration, operative under water
Reverse voltage protection : Device will prevent incoming power source on improper input connection

CONSTRUCTION

White LED Lamp : Single chip white phosphor LED lamp, chip & packaging by Samsung
Color LED Lamp : Single chip LED lamp, chip & packaging by Samsung
Body : Poly-urethane transparent resin, 96% transparency
PCB : FR-4 fiber glass epoxy resin, quad layered
Lead wire : 18 AWG 2C, 28 AWG 1C

APPLICATIONS

Channel letters - open & closed cover
Reverse halo lighting
Border lighting
Point-Of-Purchasing signage
Art & sculpture and cove lighting
Replacement for conventional lighting system
Maximum output white

APPROVAL

EU safety : EN 60065

CE

FEATURES

42,500H LIFETIME | WEATHER PROOF | PWM | Technology by SAMSUNG | REVERSE VOLTAGE GUARD | DC24V | IP65

Specifications subject to change without notice

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