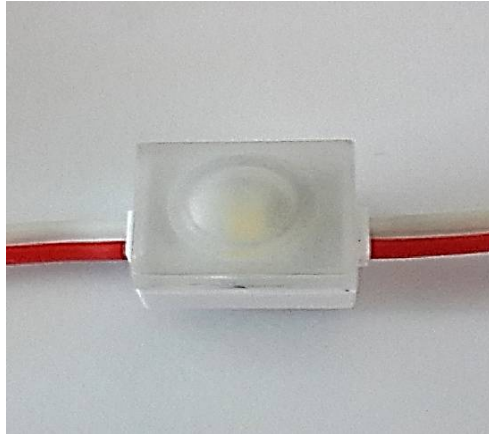




[WWW.GOQ.KR](http://WWW.GOQ.KR)

MODEL : GOQ 1 LED  
(WHITE)\_SHALLOW



### < Characteristic >

Most Preferred Best seller LED module : CE, UL, RoHS Certified

Power Consumption : 0.72W

LED provided by SAMSUNG

SMD LED mounted : Made in Korea

LED Driver : Constant Voltage Driving System

Max. 50 modules in series

Design of a new and unique CAP TYPE Optical Lens

Each unit can be used to cut.

Best Viewing Angle : **160°**

The Smallest LED module

### < Enhanced Function >

Stylish Appearance design : SHALLOW TYPE of Optical Lens

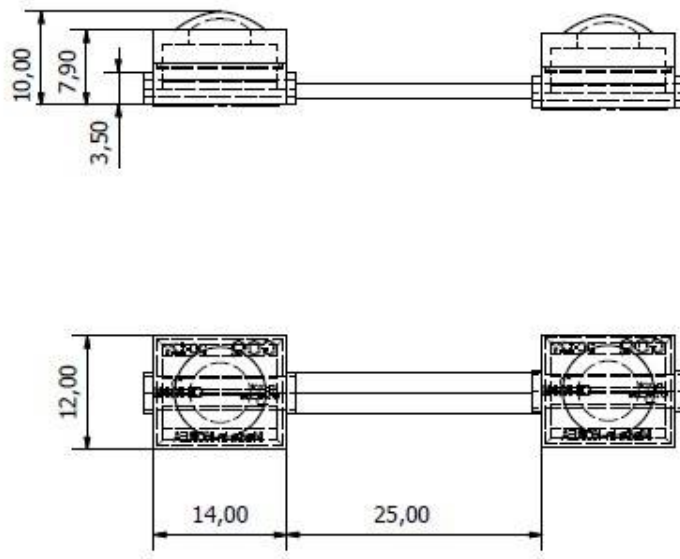
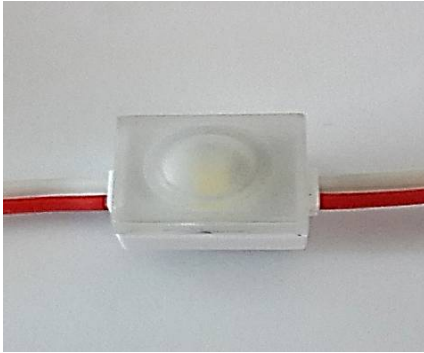
Design for Humid & Waterproof : IP68

Easy Installation & Maintenance

### < Applications >

- \* Small and Narrow size Channel letters
- \* Flex light Box illumination
- \* Duplex light Box illumination

## < Dimension >



## < Specification >

Item	Value	Unit
Product No.	GOQ 1 LED(WHITE)_SHALLOW	
Power Consumption	0.72	Watt
Input Voltage	12	VDC
Input Current	60	mA
View Angle	160	°
Luminous intensity	25	lm(Typ.)
CRI	85	%
Module Pitch	25	mm
Size	14 X 12 X 10	mm
Weight	2.2	g
Max. in Series	50	EA
Operating Temp	- 30 ~ 85	°C
Storage Temp	- 40 ~ 100	°C
Waterproof	IP68	
Cable	UL, 20AWG 300V/80°C	
Case materials	UL, ABS, V0-class	
Lens materials	UL, SAN, V0-class	

# < LED Specification >



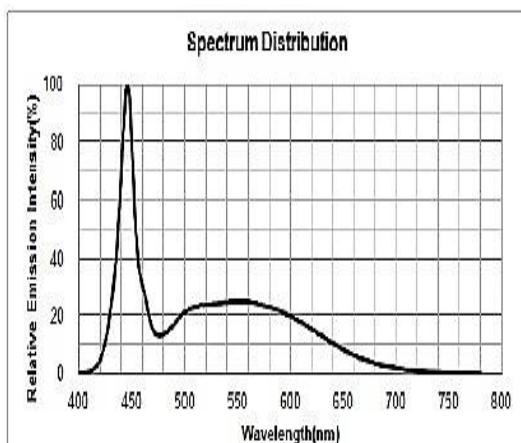
## Absolute Maximum Ratings

Item	Symbol	Rating	Condition
Operating temperature range	$T_{op}$	-40°C ~ +85°C	-
Storage temperature range	$T_{stg}$	-40°C ~ +120°C	-
LED junction temperature	$T_J$	110°C	-
Forward Current	$I_F$	150 mA	-
Peak Pulsed Forward Current	$I_{FP}$	300 mA	Duty 1/10 pulse width 10ms
Thermal resistance	$R_{th, j-s}$	16°C/W	Junction to solder point
Assembly Process Temperature	-	260°C, < 10sec	-
ESD	-	5kV	HBM

## Characteristics

Item	Unit	Nominal CCT	Product Code	Rank	Min	Typ	Max
Forward Voltage <sup>1)</sup> ( $V_f$ ) (@85 mA, $T_s = 25^\circ\text{C}$ )	V	-	-	AZ	2.70	-	2.80
				A1	2.80	-	2.90
				A2	2.90	-	3.00
				A3	3.00	-	3.10
				A4	3.10	-	3.20
Luminous Intensity <sup>2)</sup> ( $I_v$ ) (@85 mA, $T_s = 25^\circ\text{C}$ )	lm	10000K	*WAAUS0	S0	24.0	-	31.5
Reverse Voltage (@5 mA, $T_s = 25^\circ\text{C}$ )	V	-	-	-	0.7	-	1.2

## Spectrum ( $T_s=25^\circ\text{C}$ )



## Viewing Radiation Characteristics

