



WWW.GOQ.KR

MODEL : GOQ 1 LED
(RED)_SHALLOW



< Characteristic >

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

Power Consumption : 0.3W

LED provided by DK1

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

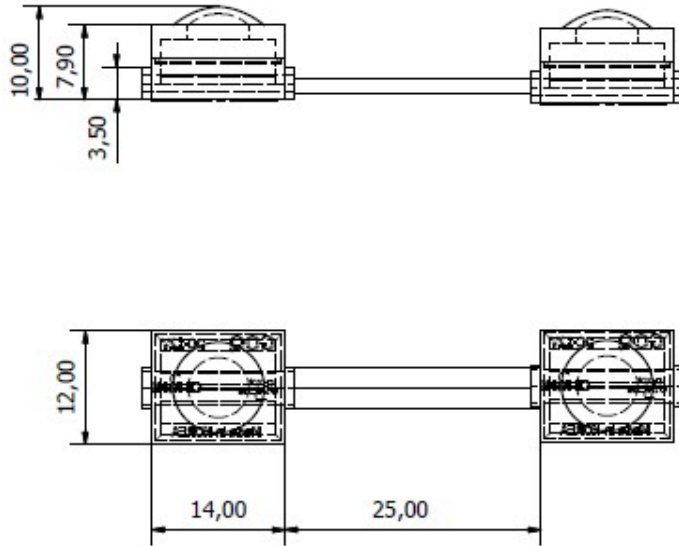
Design for Humid & Waterproof : IP68

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(REDF)_SHALLOW	
Power Consumption	0.3	Watt
Input Voltage	12	VDC
Input Current	25	mA
View Angle	160	°
Luminous intensity	8	lm(Typ.)
CRI	80	%
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

(Ta=25°C)

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	I_F	90	mA
Pulse Forward Current *1)	I_{FP}	270	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	252	mW
Operating Temperature	T_{opr}	-30~+85	°C
Storage Temperature	T_{stg}	-40~+100	°C

*1) I_{FP} conditions : Pulse with $t_w \leq 0.1ms$, Duty ratio $\leq 1/10$

※ Care is to be taken that Power Dissipation dose not exceed the Absolute Maximum Rating of the product.

※ These values are based on 3 die performance

Electro-Optical Characteristics

(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F=60mA$	1.8		2.4	V
Reverse Current	I_R	$V_R=5V$			10	uA
Luminous Intensity	I_v	$I_F=60mA$	1,600		2,200	mcd
Dominant Wavelength	λ_D	$I_F=60mA$	620		626	nm
Half Angle	θ_{\pm}	$I_F=60mA$		± 60		deg

※ Voltage are tested at a current pulse duration of 1ms and an accuracy of $\pm 0.05V$

※ Luminous Intensity is tested at a current pulse duration of 10ms and an accuracy of $\pm 10\%$.

Viewing Radiation Characteristics

