



CIRA - M-2WS072

Mini Shallow

### Features

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°**



### Enhanced Functions

Stylish Appearance design : SHALLOW TYPE of Optical Lens

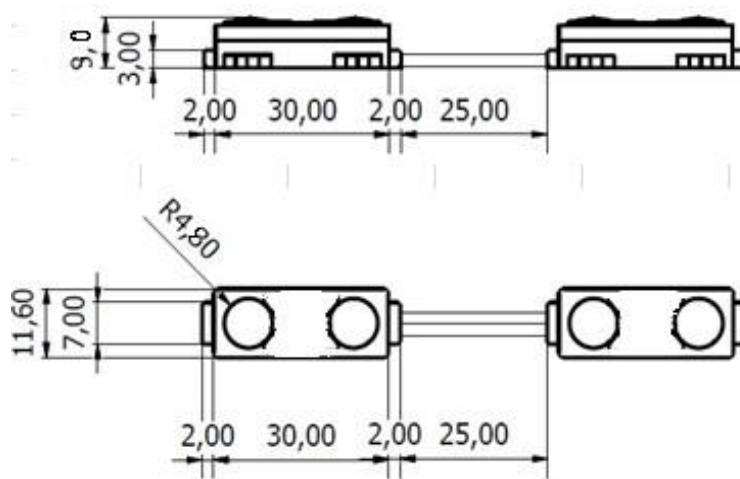
Design for Humid & Waterproof : IP68

Easy Installation & Maintenance

### Applications

- \* Narrow and Close-fitting Channel letters
- \* Flex light Box illumination
- \* Duplex light Box illumination

# Dimensions



# Specifications

Item	Value	Unit
Product No.	GOQ MWS072	
Power Consumption	0.72	Watt
Input Voltage	12	VDC
Input Current	60	mA
View Angle	160	°
Luminous intensity	60	lm(Typ.)
CRI	80	%
Module Pitch	25	mm
Size	34 X 11.6 X 9.0	mm
Weight	3.8	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 Specifications

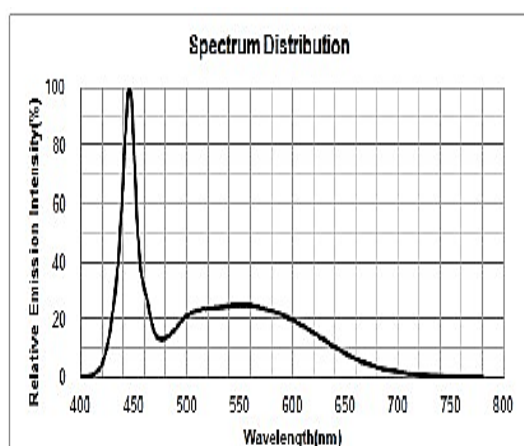
## Absolute Maximum Ratings

Item	Symbol	Rating	Condition
Operating temperature range	T <sub>op</sub>	-40°C ~ +85°C	-
Storage temperature range	T <sub>stg</sub>	-40°C ~ +120°C	-
LED junction temperature	T <sub>J</sub>	110°C	-
Forward Current	I <sub>F</sub>	150 mA	-
Peak Pulsed Forward Current	I <sub>FP</sub>	300 mA	Duty 1/10 pulse width 10ms
Thermal resistance	R <sub>th, J-S</sub>	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 <sub>F</sub> ) (@85 mA, T <sub>s</sub> = 25°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 <sub>v</sub> ) (@85 mA, T <sub>s</sub> = 25°C)	lm	10000K	*WAAUS0	S0	24.0	-	31.5
Reverse Voltage (@5 mA, T <sub>s</sub> = 25°C)	V	-	-	-	0.7	-	1.2

## Spectrum (T<sub>s</sub>=25°C)



## Radiation Characteristics

