

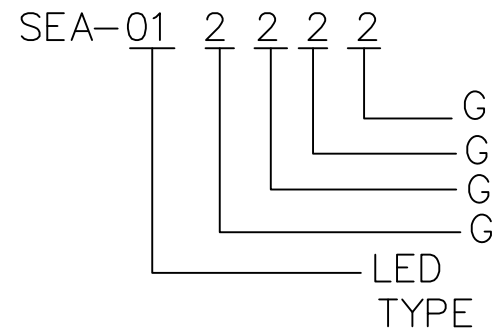
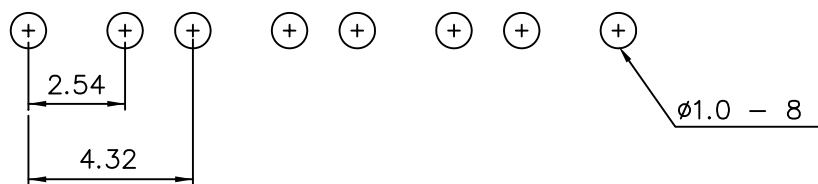
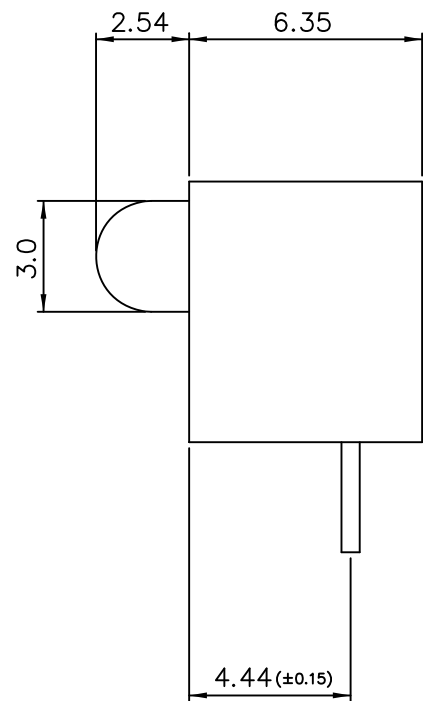
- 规格书 -

产品型号: SEA-01-2222

产品名称: LED模组

SM SWITCH CO.,LTD

Add :江苏省无锡市新吴区弘毅路8号金帛座706室
韩国京畿道富川市三鹊路22号富川科技园103-506栋
TEL :+86-510-8591-9217
E-mail:SMSWITCH@SIMAOKJ.COM
Web :WWW.SIMAOKJ.CN



NOTE: GENERAL TOLERANCE ± 0.3							
<u>A</u>				APPD	CHKD	DSGD	LED MODULE
<u>4</u>							
<u>3</u>							
<u>2</u>							
<u>1</u>							
NO				WANG Y.D	KIM J.S	LEE H.S	MODEL SEA-01-2222

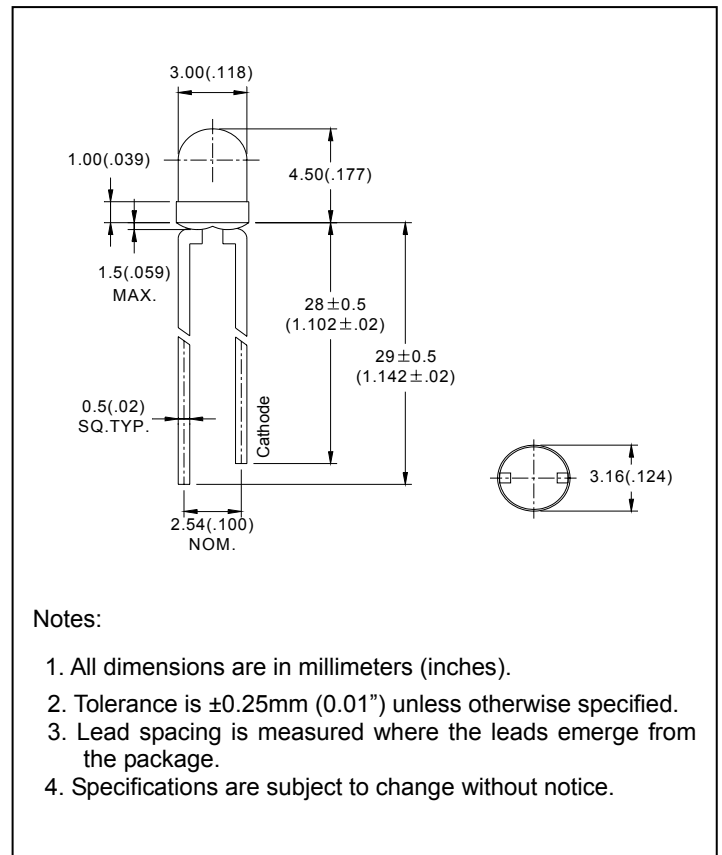
● Features:

1. Chip material: GaP /GaP
2. Emitted color : Green
3. Lens Appearance : Green Diffused
4. Low power consumption.
5. High efficiency.
6. Versatile mounting on P.C. Board or panel.
7. Low current requirement.
8. 3mm diameter package
9. This product don't contained restriction substance, compliance ROHS standard.

● Applications:

1. TV set
2. Monitor
3. Telephone
4. Computer
5. Circuit board

● Package dimensions



● Absolute maximum ratings($T_a=25^\circ\text{C}$)

Parameter	Symbol	Rating	Unit
Power Dissipation	P_d	80	mW
Forward Current	I_F	30	mA
Peak Forward Current ^{*1}	I_{FP}	150	mA
Reverse Voltage	V_R	5	V
Operating Temperature	T_{opr}	$-40^\circ\text{C} \sim 85^\circ\text{C}$	
Storage Temperature	T_{stg}	$-40^\circ\text{C} \sim 100^\circ\text{C}$	
Soldering Temperature	T_{sol}	260°C max (for 5 seconds)	
Hand Soldering Temperature	T_{sol}	350°C max(for 3 seconds)	

^{*1}Condition for I_{FP} is pulse of 1/10 duty and 0.1msec width.

● Electrical and optical characteristics(Ta=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F=20\text{mA}$	-	2.2	2.6	V
Luminous Intensity	I_v	$I_F=20\text{mA}$	-	35	-	mcd
Reverse Current	I_R	$V_R=5\text{V}$	-	-	100	μA
Peak Wave Length	λ_p	$I_F=20\text{mA}$	-	568	-	nm
Dominant Wave Length	λ_d	$I_F=20\text{mA}$	560	-	576	nm
Spectral Line Half-width	$\Delta\lambda$	$I_F=20\text{mA}$	-	30	-	nm
Viewing Angle	$2\theta_{1/2}$	$I_F=20\text{mA}$	-	45	-	deg

● Typical electro-optical characteristics curves

Fig.1 Relative intensity vs. Wavelength

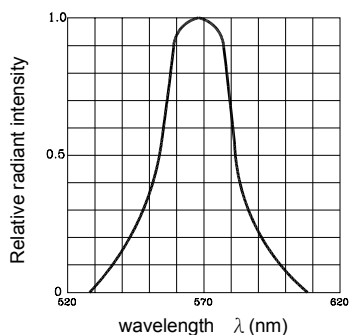


Fig.2 Forward current derating curve vs. Ambient temperature

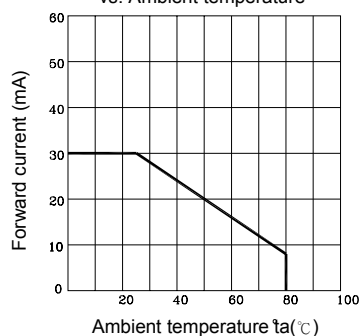


Fig.3 Forward current vs. Forward voltage

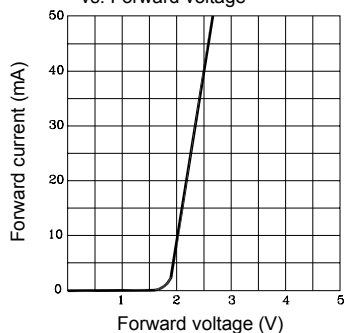


Fig.4 Relative luminous intensity vs. Ambient temperature

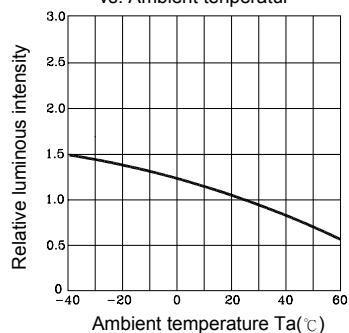


Fig.5 Relative luminous intensity vs. Forward current

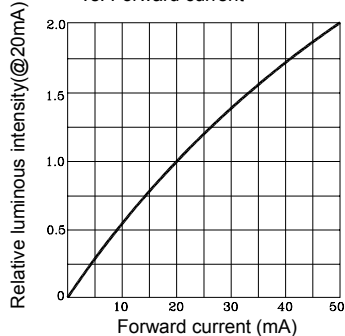
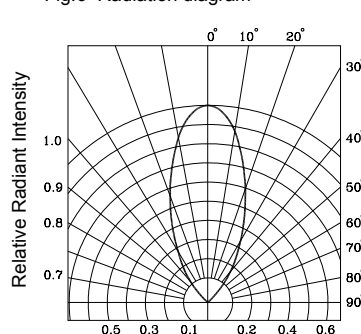


Fig.6 Radiation diagram



● Bin Limits

1. Intensity Bin Limits (At $I_F = 20\text{mA}$)

Bin Code	Min. (mcd)	Max. (mcd)
K	12.3	18.5
L	18.5	28
M	28	42
N	42	63
P	63	94

● Bin : x



NOTES: 1. Tolerance of measurement of luminous intensity.

: $\pm 15\%$

● DIP soldering (Wave Soldering)

Preheating : 120°C , within 120~180 sec.

Operation heating : $255^\circ\text{C} \pm 5^\circ\text{C}$ within 5 sec. 260°C (Max)

Gradual Cooling (Avoid quenching).

