

- 规格书 -

产品型号: SAA-0312

产品名称: LED模组

SM SWITCH CO.,LTD

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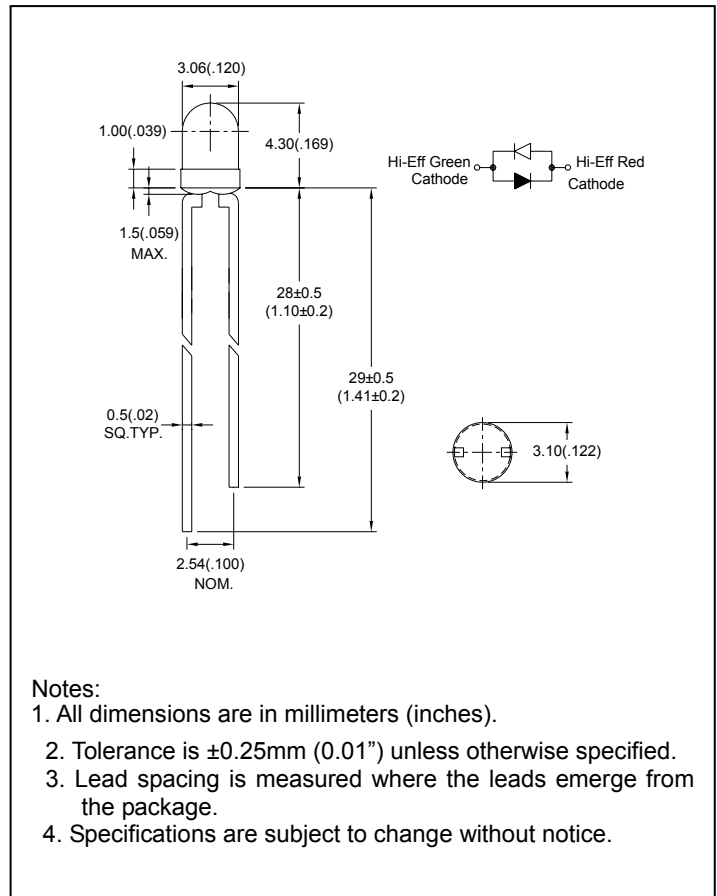
● Features:

1. Chip material: GaAsP/GaP(Hi-Eff Red)
and GaP/GaP (Hi-Eff Green)
2. Emitted color :Hi-Eff Red and Hi-Eff Green
3. Lens Appearance : White 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:



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (0.01") unless otherwise specified.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

● Absolute Maximum Ratings(Ta=25°C)

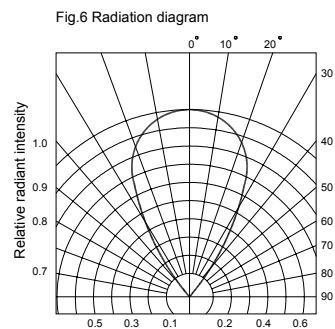
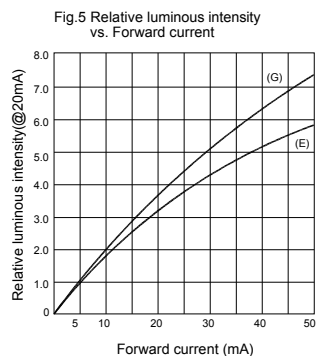
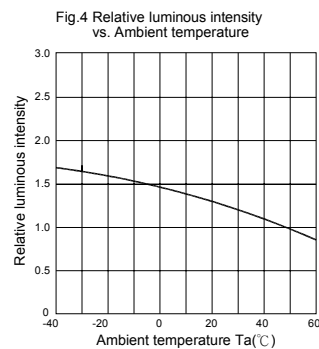
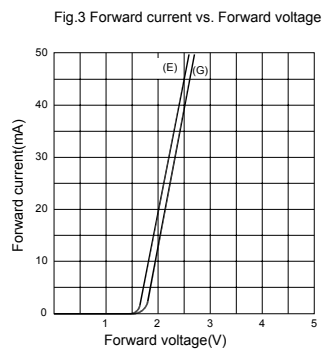
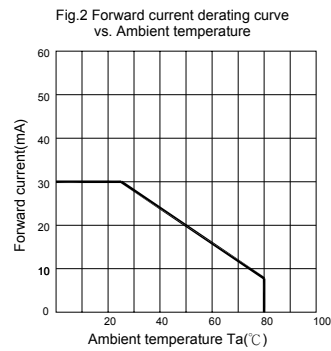
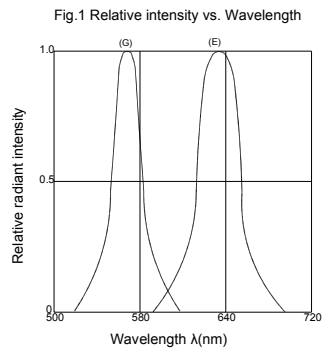
Parameter	Symbol	Hi-Eff Red	Hi-Eff Green	Unit
Power Dissipation	Pd	80	80	mW
Forward Current	I _F	30	30	mA
Peak Forward Current* ¹	I _{FP}	150	150	mA
Reverse Voltage	V _R	5		V
Operating Temperature	Topr	-40°C~+85°C		
Storage Temperature	Tstg	-40°C~+100°C		
Soldering Temperature	Tsol	260°C max (for 5 seconds)		
Hand Soldering Temperature	Tsol	350°C max(for 3 seconds)		

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

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

Parameter	Symbol	Condition	Color	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F=20\text{mA}$	Hi-Eff Red Hi-Eff Green	-	2.1 2.2	2.6 2.6	V
Luminous Intensity	I_V	$I_F=20\text{mA}$	Hi-Eff Red Hi-Eff Green	-	7 15	-	mcd
Reverse Current	I_R	$V_R=5\text{V}$	Hi-Eff Red Hi-Eff Green	-	-	100	μA
Peak Wave Length	λ_p	$I_F=20\text{mA}$	Hi-Eff Red Hi-Eff Green	-	640 568	-	nm
Dominant Wave Length	λ_d	$I_F=20\text{mA}$	Hi-Eff Red Hi-Eff Green	617 -	- 573	638 -	nm
Spectral Line Half-width	$\Delta \lambda$	$I_F=20\text{mA}$	Hi-Eff Red Hi-Eff Green	-	35 30	-	nm
Viewing Angle	$2\theta_{1/2}$	$I_F=20\text{mA}$	Hi-Eff Red Hi-Eff Green	-	60	-	deg

● Typical Electro-Optical Characteristics Curves



● DIP soldering (Wave Soldering)

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

Operation heating : 255°C±5°C within 5 sec.260°C (Max)

Gradual Cooling (Avoid quenching).

