



PRODUCT NEWS

Snap-in type LED module

Product Outline

This is a 1W class LED module which uses a wedge base-type socket. It requires no soldering, and can be easily installed and removed. We also provide dedicated socket.

Feature

- Socket systems that enable to mount or demount (no soldering necessary)
- High color rendering Ra=90 (TYP.) (both White and Warm white)
- Choice of applications are possible due to 5 colors (white, warm white, red, green and blue) and 2 lenses (narrow angle: 30° wide angle: 60°)



Application

- Showcase illumination (enable to add variety of color for goods without extra construction)
- Light color renditions (combined R, G and Blue)
- Interior lighting (chandelier, etc.)
- Architectural lighting (cove lighting, etc.)

【Production lineup】

Part number	LED color	Angle	Watts	CRI	Lumen/cd	Dimensions		
SNN1131N	White 5000K	30°	1.2W (3.4V-350mA)	Ra:90(typ)	25lm	Φ 22 × H27		
SNN1161N		60°						
SNW1131N	Warm White 3300K	30°						
SNW1161N		60°						
SNR1131N	Red	30°	0.8W (2.4V-350mA)	-	30cd			
SNR1161N		60°			8cd			
SNG1131N	Green	30°	1.2W (3.4V-350mA)	-	50cd			
SNG1161N		60°			13cd			
SNB1131N	Blue	30°			-		-	10cd
SNB1161N		60°						30cd

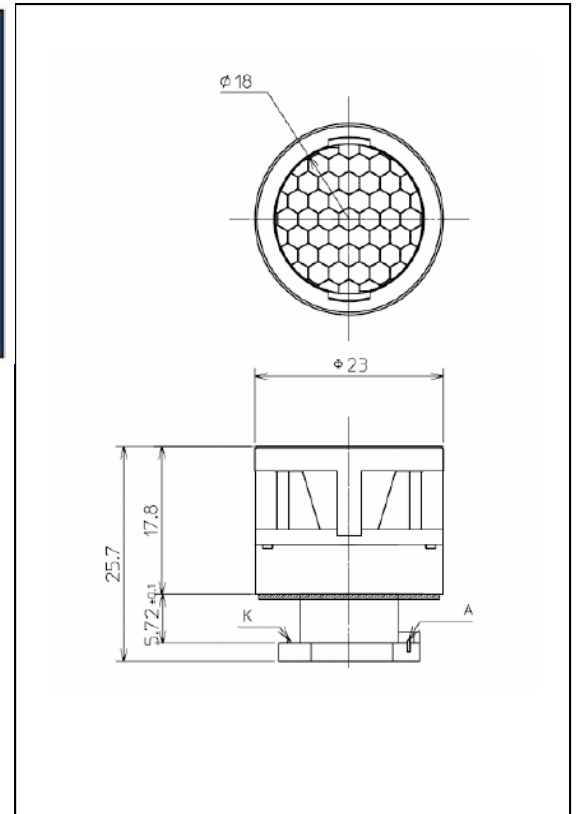
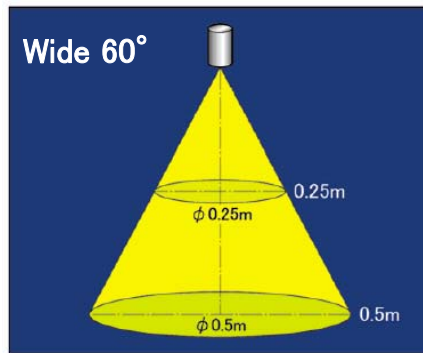
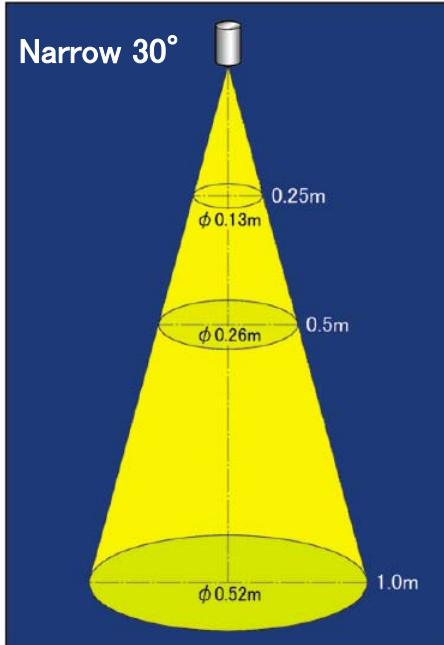
【Absolute maximum ratings】

Items	Absolute maximum ratings
Forward current	350mA
Operating Temp.	-30°C ~ +70°C
Storage Temp.	-40°C ~ +85°C

【Spatial distribution】

Relative intensity

【Dimensions】



Dedicated socket (BJB-made 47.314)

Technical drawings show dimensions: 424 ± 0.3 , $192^{+0.2}$, $3.2^{+0.4}$, 55 ± 0.2 , $\phi 292 \pm 0.2$, 36 ± 0.2 , $\phi 42 \pm 0.1$.

- Including constant current circuit
- Input: DC 5V ~ 9V
- Heat-dissipating metal housing
- Twist & lock system

Snap-in type (white 5000K 30°Lens) SPECIFICATION

1.Absolute Maximum Ratings ($T_a=25^{\circ}\text{C}$)

Items	Symbols	Maximum Ratings	Units
Power dissipation	P_d	1.40	W
Forward current (note1)	I_F	0.35	A
Operation temperature	T_{opr}	-30~+70	$^{\circ}\text{C}$
Storage temperature	T_{stg}	-40~+85	$^{\circ}\text{C}$

Note1) Forward current should establish by LED actual temperature under 80°C at 25°C on the temperature measurement point in next page figure.

2.Electro-Optical Characteristics ($T_a=25^{\circ}\text{C}$)

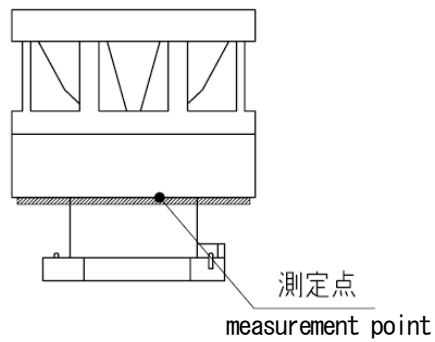
Items	Symbols	Conditions	Min.	Typ.	Max	Units
Forward voltage	V_F	$I_F=300\text{mA}$	2.9	3.3	3.9	VDC
Luminous intensity	I_v	$I_F=300\text{mA}$	—	(60)	—	cd
Illumination	lx	$I_F=300\text{mA}$	—	60	—	lx
Luminous flux	Φ_v	$I_F=300\text{mA}$	—	(25)	—	lm
Average color rendering index	Ra	$I_F=300\text{mA}$	—	90	—	—
Half Intensity angle (note2)	$\Delta\theta$	$I_F=300\text{mA}$	—	± 15	—	deg

Note2) Lighting Angle at 50% of luminous intensity

3. Thermal Characteristics ($T_a=25^{\circ}\text{C}$)

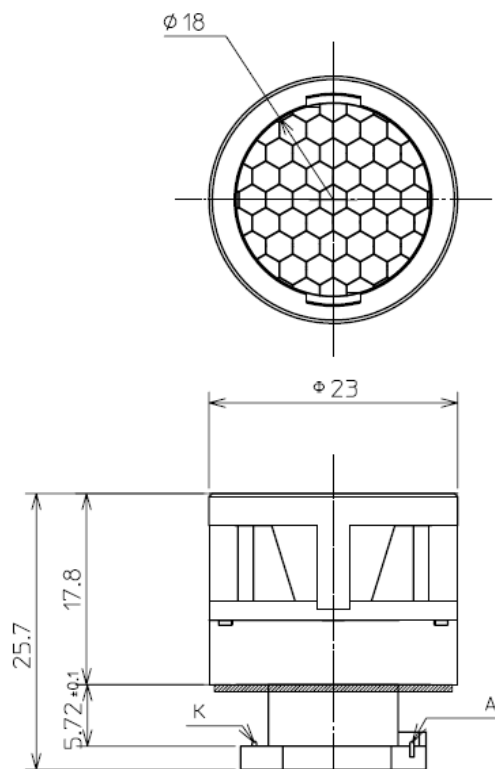
Items	Symbols	Min.	Typ.	Max.	Units
Junction Temperature	T_J	—	—	125	$^{\circ}\text{C}$
Thermal resistance (Junction/Surface of LED) (note3)	$R_{th(j-s)}$	—	45	—	$^{\circ}\text{C}/\text{W}$

Note3) The figure below shows the measurement point on the surface of LED



4. Outer dimension · Weight

Weight: 15g(MAX.) (Unit in mm)



Snap-in type (white 5000K 60°Lens) SPECIFICATION

1.Absolute Maximum Ratings ($T_a=25^{\circ}\text{C}$)

Items	Symbols	Maximum Ratings	Units
Power dissipation	P_d	1.40	W
Forward current (note1)	I_F	0.35	A
Operation temperature	T_{opr}	-30~+70	$^{\circ}\text{C}$
Storage temperature	T_{stg}	-40~+85	$^{\circ}\text{C}$

Note1) Forward current should establish by LED actual temperature under 80°C at 25°C on the temperature measurement point in next page figure.

2.Electro-Optical Characteristics ($T_a=25^{\circ}\text{C}$)

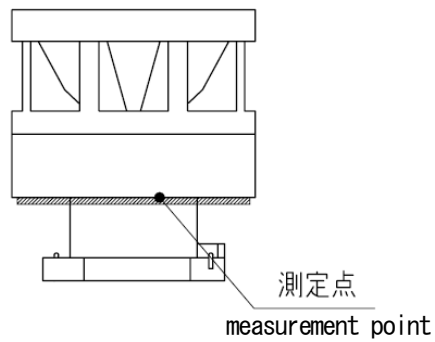
Items	Symbols	Conditions	Min.	Typ.	Max.	Units
Forward voltage	V_F	$I_F=300\text{mA}$	2.9	3.3	3.9	VDC
Luminous intensity	I_v	$I_F=300\text{mA}$	—	(15)	—	cd
Illumination	lx	$I_F=300\text{mA}$	—	15	—	lx
Luminous flux	Φ_v	$I_F=300\text{mA}$	—	(25)	—	lm
Average color rendering index	Ra	$I_F=300\text{mA}$	—	90	—	—
Half intensity angle (note2)	$\Delta\theta$	$I_F=300\text{mA}$	—	± 30	—	deg

Note2) Lighting angle at 50% of luminous Intensity

3. Thermal Characteristics ($T_a=25^{\circ}\text{C}$)

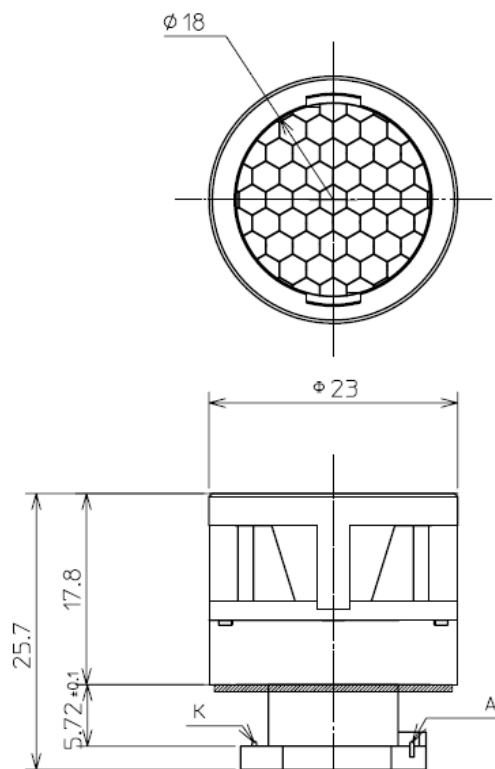
Items	Symbols	Min.	Typ.	Max.	Units
Junction temperature	T_J	—	—	125	$^{\circ}\text{C}$
Thermal resistance (Junction / Surface of LED) (note3)	$R_{th(j-s)}$	—	45	—	$^{\circ}\text{C}/\text{W}$

Note3) The figure below shows the measurement point on the surface of LED



4. Outer dimension · Weight

Weight : 15g(Max.) (Unit in mm)



Snap-in type (white 3300K 30°Lens) SPECIFICATION

1.Absolute Maximum Ratings ($T_a=25^{\circ}\text{C}$)

Items	Symbols	Maximum ratings	Units
Power dissipation	P_d	1.40	W
Forward current (note1)	I_F	0.35	A
Operation temperature	T_{opr}	-30~+70	$^{\circ}\text{C}$
Storage temperature	T_{stg}	-40~+85	$^{\circ}\text{C}$

Note1) Forward current should establish by LED actual temperature under 800°C at 25°C on the temperature measurement point in next page figure.

2.Electro-Optical Characteristics ($T_a=25^{\circ}\text{C}$)

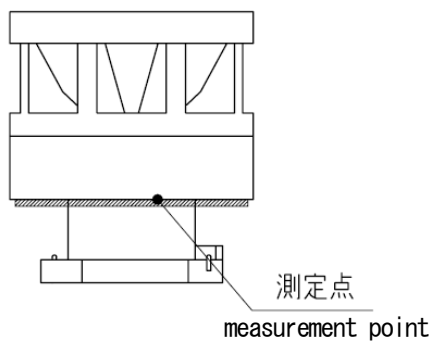
Items	Symbols	Conditions	Min.	Typ.	Max.	Units
Forward voltage	V_F	$I_F=300\text{mA}$	2.9	3.3	3.9	VDC
Luminous intensity	I_v	$I_F=300\text{mA}$	—	(40)	—	cd
Illumination	lx	$I_F=300\text{mA}$	—	40	—	lx
Luminous flux	Φ_v	$I_F=300\text{mA}$	—	(20)	—	lm
Average color rendering index	R a	$I_F=300\text{mA}$	—	90	—	—
Half intensity angle (note2)	$\Delta\theta$	$I_F=300\text{mA}$	—	± 15	—	deg

Note2) Lighting angle at 50% of luminous intensity

3. Thermal Characteristics ($T_a=25^{\circ}\text{C}$)

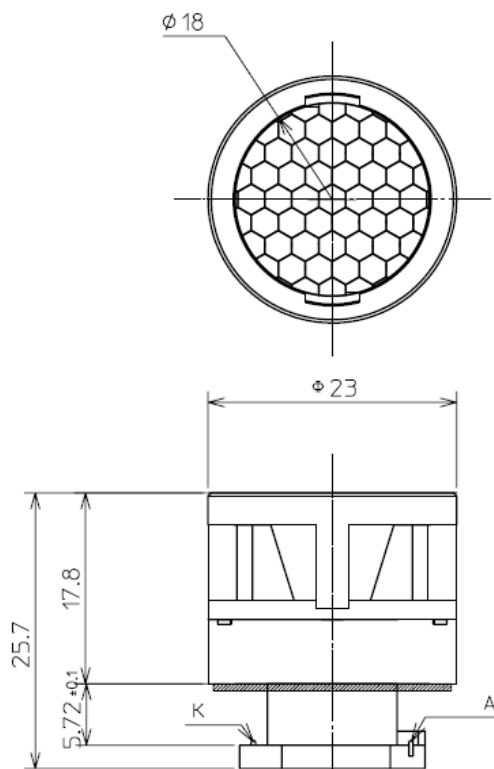
Items	Symbols	Min.	Typ.	Max.	Units
Junction Temperature	T_J	—	—	125	$^{\circ}\text{C}$
Thermal resistance (Junction / Surface of LED) (note3)	$R_{th(j-s)}$	—	45	—	$^{\circ}\text{C}/\text{W}$

Note3) The figure below shows the measurement point on the surface of LED



4. Outer dimension · Weight

Weight : 15g(MAX.) (Unit in mm)



Snap-in type (white 3300K 60°Lens) SPECIFICATION

1.Absolute Maximum Ratings ($T_a=25^{\circ}\text{C}$)

Items	Symbols	Maximum Ratings	Units
Power dissipation	P_d	1.40	W
Forward current (note1)	I_F	0.35	A
Operation temperature	T_{opr}	-30~+70	$^{\circ}\text{C}$
Storage temperature	T_{stg}	-40~+85	$^{\circ}\text{C}$

Note1) Forward current should establish by LED actual temperature under 80°C at 25°C on the temperature measurement point in next page figure.

2.Electro-Optical Characteristics ($T_a=25^{\circ}\text{C}$)

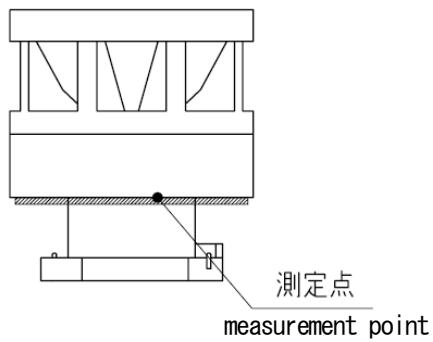
Items	Symbols	Conditions	Min.	Typ.	Max.	Units
Forward voltage	V_F	$I_F=300\text{mA}$	2.9	3.3	3.9	VDC
Luminous intensity	I_v	$I_F=300\text{mA}$	—	(10)	—	cd
Illumination	lx	$I_F=300\text{mA}$	—	10	—	lx
Luminous flux	Φ_v	$I_F=300\text{mA}$	—	(20)	—	lm
Average color rendering index	R a	$I_F=300\text{mA}$	—	90	—	—
Half intensity angle (note2)	$\Delta\theta$	$I_F=300\text{mA}$	—	± 30	—	deg

Note2) Lighting angle at 50% of luminous intensity

3. Thermal Characteristics ($T_a=25^{\circ}\text{C}$)

Items	Symbols	Min.	Typ.	Max.	Units
Junction temperature	T_J	—	—	125	$^{\circ}\text{C}$
Thermal resistance (Junction / Surface of LED) (note3)	$R_{th(j-s)}$	—	45	—	$^{\circ}\text{C}/\text{W}$

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4. Outer dimension · Weight

Weight : 15g(MAX.) (Unit in mm)

