

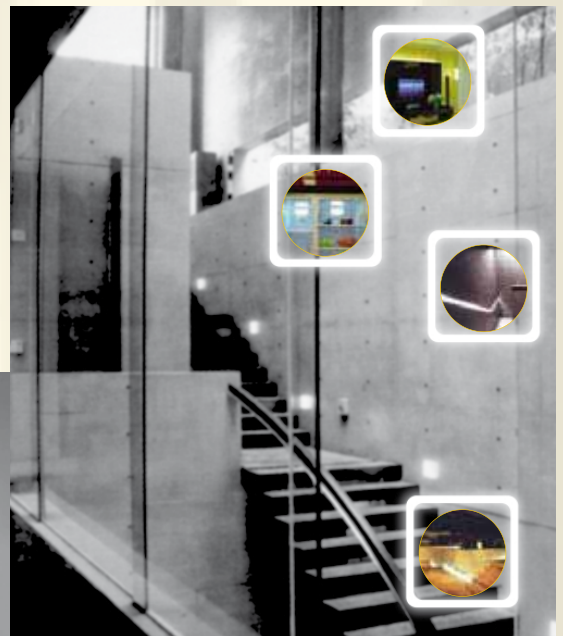
setron



SAMSUNG
ELECTRO-MECHANICS

High Power LED

LED for LIGHTING

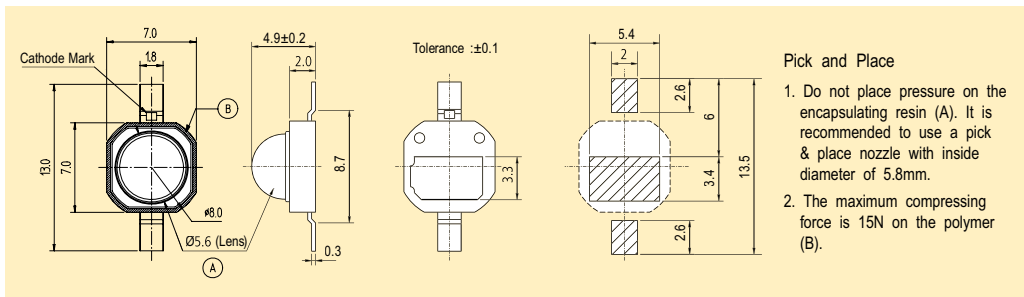


Products



SLHNNW/W51 1T0 warm white with Lens (Beam Angle 55°)
 SLHNNW/H51 1T0 cool white with Lens (Beam Angle 55°)
 SLHNNW/W51 1N0 warm white w/o Lens (Beam Angle 120°)
 SLHNNW/H51 1N0 cool white w/o Lens (Beam Angle 120°)

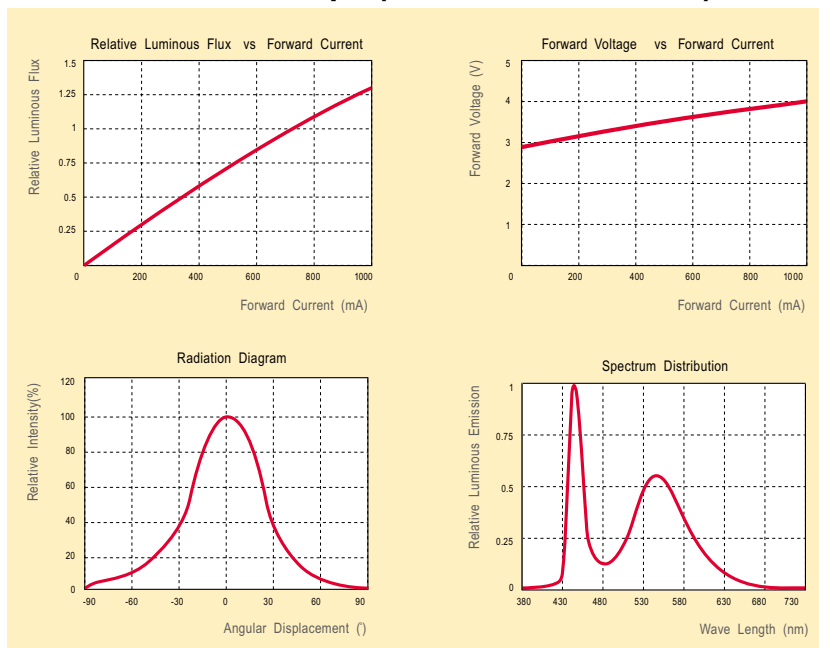
Outline Dimension



Electrical Characteristics

Item	Colour	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward Voltage	-	V_F	2.9	-	4.1	V	$I_F=350\text{mA}$
Reverse Voltage	-	V_R	0.5	-	2.0	V	$I_R=10\text{mA}$
Luminous Flux	warm white	Φ_V	40	-	70	lm	$I_F=350\text{mA}$
Luminous Flux	cool white	Φ_V	60	-	90	lm	$I_F=350\text{mA}$

Typical Characteristics Graph (cool white with Lens)

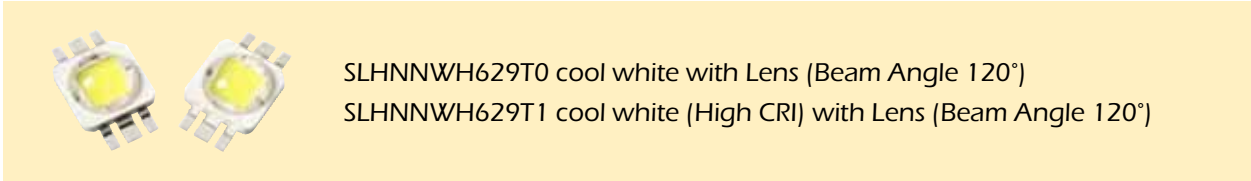




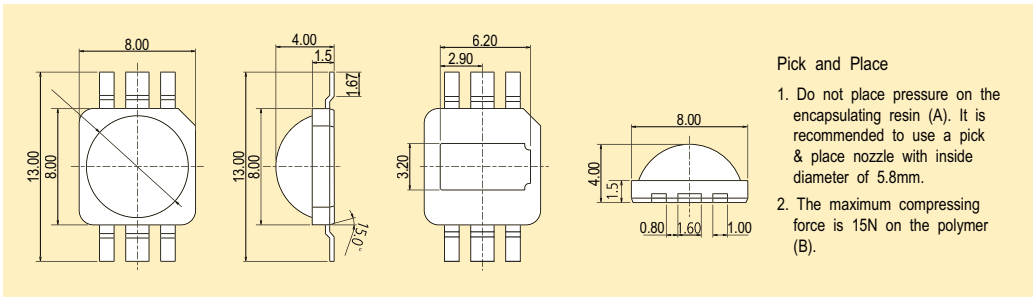
SAMSUNG
ELECTRO-MECHANICS

2W High Power LED

Products



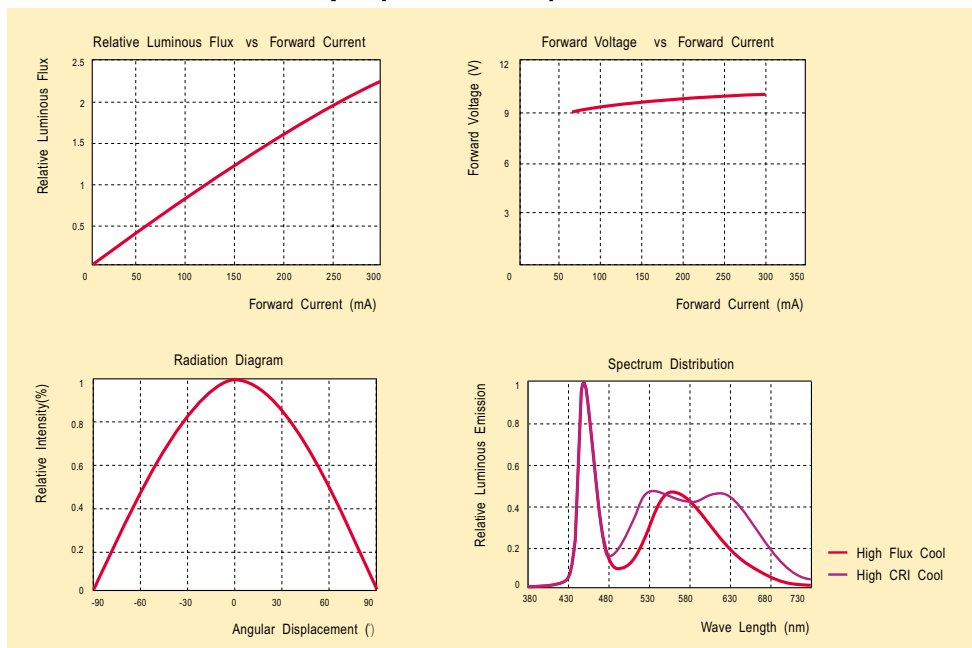
Outline Dimension



Electrical Characteristics


Item	Colour	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward Voltage	-	V_F	8.9	-	11.0	V	$I_F=180\text{mA}$
Reverse Voltage	-	V_R	12.0	-	16.5	V	$I_R=5\text{mA}$
Luminous Flux	cool white (High Flux)	Φ_V	110	-	160	lm	$I_F=180\text{mA}$
Luminous Flux	cool white (High CRI)	Φ_V	80	-	140	lm	$I_F=180\text{mA}$

Typical Characteristics Graph (cool white)



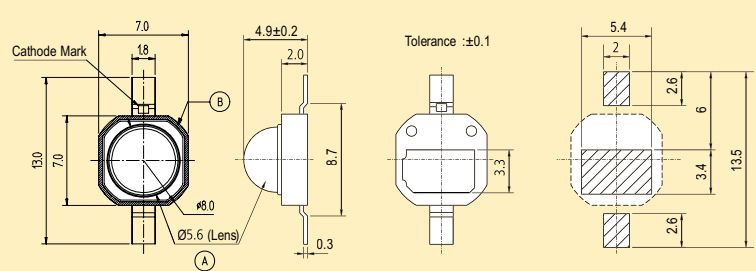
3W High Power LED

Products



SLHNNW/W531T0 warm white with Lens (Beam Angle 55°)
 SLHNNW/H531T0 cool white with Lens (Beam Angle 55°)
 SLHNNW/W531N0 warm white w/o Lens (Beam Angle 120°)
 SLHNNW/H531N0 cool white w/o Lens (Beam Angle 120°)

Outline Dimension



Dimensions:
 Cathode Mark: 7.0, 1.8, 7.0, 7.0, 8.0, Ø5.6 (Lens)
 Lens: 4.9±0.2, 2.0, 8.7, 0.3
 Body: 5.4, 2, 2.6, 6, 3.4, 13.5, 2.6
 Tolerance: ±0.1

Pick and Place

- Do not place pressure on the encapsulating resin (A). It is recommended to use a pick & place nozzle with inside diameter of 5.8mm.
- The maximum compressing force is 15N on the polymer (B).

Electrical Characteristics

Item	Colour	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward Voltage	-	V_F	3.2	-	4.5	V	$I_F=700\text{mA}$
Reverse Voltage	-	V_R	0.5	-	2.0	V	$I_R=10\text{mA}$
Luminous Flux	warm white	Φ_V	80	-	120	lm	$I_F=700\text{mA}$
Luminous Flux	cool white	Φ_V	100	-	160	lm	$I_F=700\text{mA}$

Typical Characteristics Graph (cool white with Lens)

