



HEAT SLUG



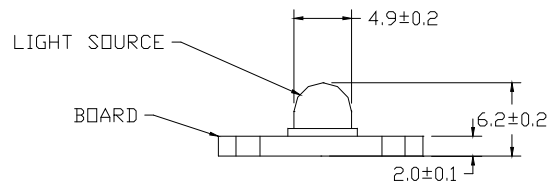
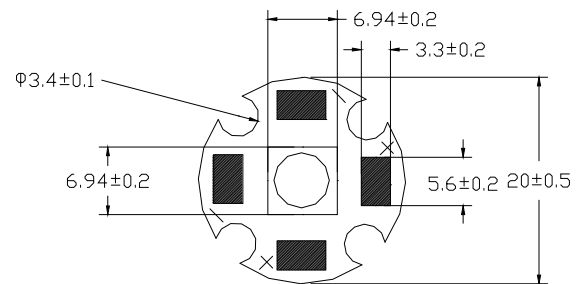
Part No.: S30NW6C

Features:

- Highest Flux White
- High reliability and Very long operating life (up to 100K hours)
- Low voltage DC operated
- More Energy Efficient than Incandescent and most Halogen lamps
- NO UV
- Superior ESD protection

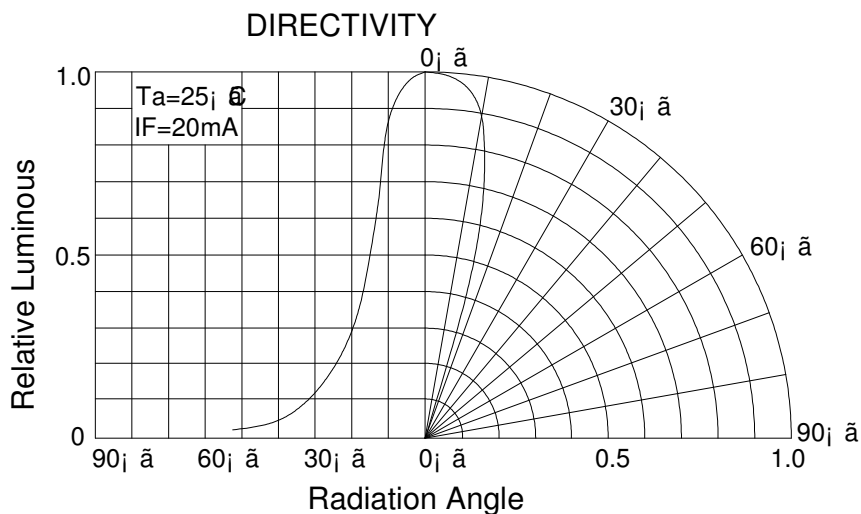
Typical Applications:

- Reading lights(car,bus,aircraft)
- Portable(flashlight,bicycle)
- Automotive Exterior(Stop-Tail-Turn, CHMSL,Mirror Side Repeat)
- Decorative



NOTE:

- All dimensions are millimetres.
- Tolerance is ± 0.1 mm unless otherwise noted





HEAT SLUG

Part No.: S30NW6C

Absolute maximum ratings (Ta = 25°C)

| Parameter | Symbol | Test Condition | Value | | Unit |
|----------------------------|------------------|----------------|-------------------------|------|------|
| | | | Min. | Max. | |
| DC Forward Current | IF | ---- | ---- | 350 | mA |
| DC Forward Maximum Current | I _{max} | ----- | ---- | 500 | mA |
| Power Dissipation | P _d | ---- | ---- | 1.4 | W |
| LED Junction Temperature | T _j | ---- | | 120 | °C |
| Operating Temperature | T _{opr} | ---- | -25 | +100 | °C |
| Storage Temperature | T _{str} | ---- | -40 | +120 | °C |
| ESD Sensitivity | --- | HBM | 8000 | --- | V |
| Soldering Temperature | --- | ----- | 260°C for 5 Seconds max | | |

Electrical and optical characteristics (Ta = 25°C)

| Parameter | Symbol | Test Condition | Value | | | Unit |
|--------------------------|----------------|----------------|-------|------|------|------|
| | | | Min. | Typ. | Max. | |
| Forward Voltage | V _F | IF = 350mA | ---- | 3.5 | 4.0 | V |
| Luminous Flux | Φ _v | IF = 350mA | 25 | 30 | - | lm |
| Viewing Angle | 2 θ 1/2 | IF = 350mA | ---- | 30 | ---- | Deg. |
| Color Temperature | CCT | IF = 350mA | ---- | 6000 | --- | K |
| Chromaticity Coordinates | X,Y | IF = 350mA | ----- | | | -- |

Luminous Flux Bins (Ta = 25°C)

Unit:lm

| Bin | C | D | E | F | G | H |
|-----|----|----|----|----|----|----|
| Min | 10 | 15 | 20 | 25 | 30 | 40 |
| Max | 15 | 20 | 25 | 30 | 40 | 50 |

Dominant Wavelength- λ_d (Ta = 25°C)

Unit: nm

| Bin | B | C | D | E | | |
|-----|--------|-------|-------|-------|--|--|
| Min | 8000K | 6500K | 5000K | 3500K | | |
| Max | 10000K | 8000K | 6500K | 5000K | | |



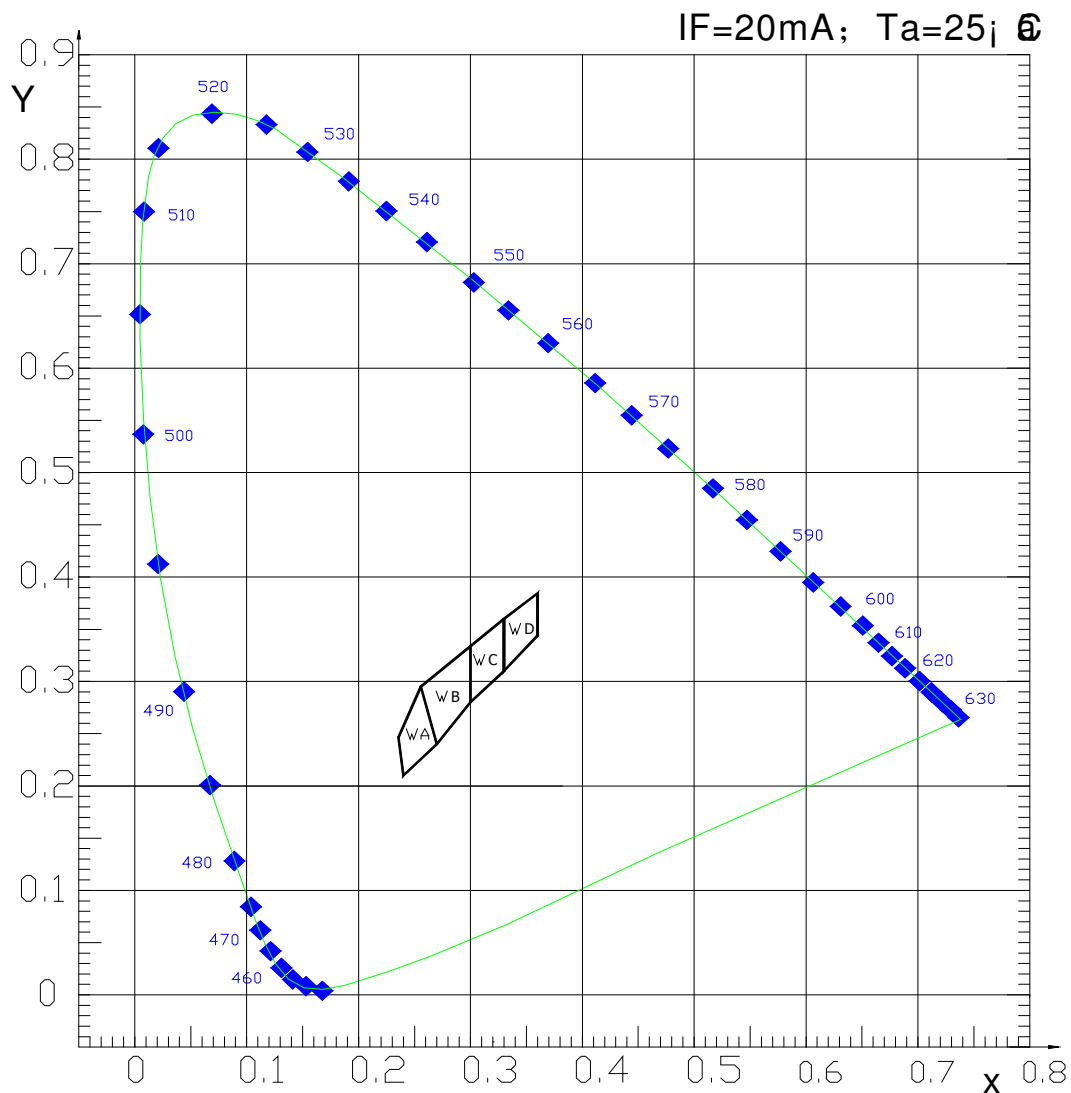
HEAT SLUG

Part No.: S30NW6C

Chromaticity Coordinates Ranks (IF=20mA Ta=25°C)

| | | | | | | | | | | | |
|----|---|-------|-------|-------|-------|----|---|-------|-------|-------|-------|
| WA | X | 0.240 | 0.235 | 0.265 | 0.270 | WC | X | 0.300 | 0.300 | 0.330 | 0.330 |
| | Y | 0.210 | 0.248 | 0.295 | 0.240 | | Y | 0.280 | 0.335 | 0.360 | 0.310 |
| WB | X | 0.270 | 0.265 | 0.300 | 0.300 | WD | X | 0.330 | 0.330 | 0.360 | 0.360 |
| | Y | 0.240 | 0.295 | 0.335 | 0.280 | | Y | 0.310 | 0.360 | 0.385 | 0.345 |

CIE 1931 Chromaticity diagram





HEAT SLUG

No.: S30NW6C

Typical electrical/optical characteristic curves:

