

LED SPECIFICATION

Part No. : **S12LY9C-B**

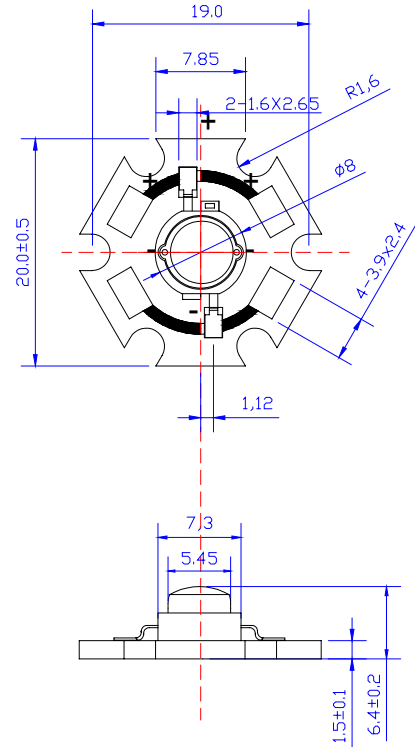


**Features:**

- Highest Flux Yellow
- 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:**

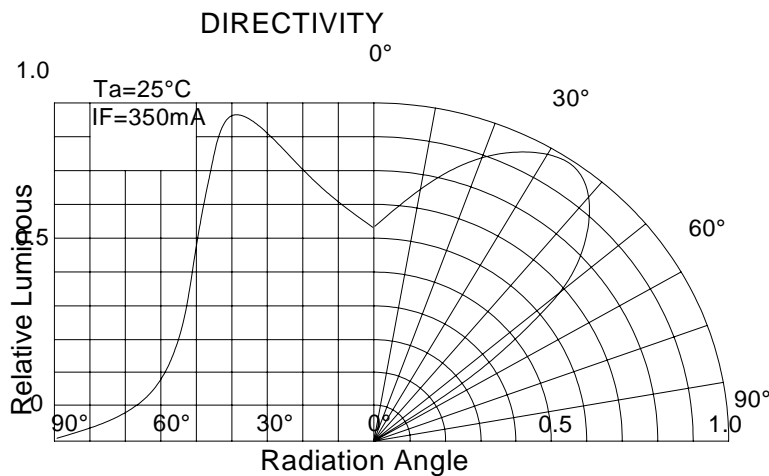
- Reading lights(car,bus,aircraft)
- Portable(flashlight,bicycle)
- Automotive Exterior(Stop-Tail-Turn, CHMSL,Mirror Side Repeat)
- Decorative

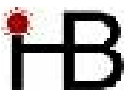


**NOTE:**

- All dimensions are millimetres.
- Tolerance is  $\pm 0.1$ mm unless otherwise noted

**Unit: mm**





Part No.: S12LY9C-B

Absolute maximum ratings (Ta = 25°C)

| Parameter                | Symbol | Test Condition   | Value                   |      | Unit |
|--------------------------|--------|------------------|-------------------------|------|------|
|                          |        |                  | Min.                    | Max. |      |
| DC Forward Current       | IF     | ----             | ----                    | 350  | mA   |
| Peak Pulse Current       | Ipeak  | Duty=0.1mS, 1kHz | ----                    | 500  | mA   |
| Power Dissipation        | Pd     | ----             | ----                    | 0.98 | W    |
| LED Junction Temperature | Tj     | ----             |                         | 120  | °C   |
| Operating Temperature    | Topr   | ----             | -25                     | +100 | °C   |
| Storage Temperature      | Tstr   | ----             | -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     | VF      | IF = 350mA     | 2     | 2.5  | 2.8  | V    |
| Luminous Flux       | Φv      |                | 30    | ---- | 50   | lm   |
| Viewing Angle       | 2 θ 1/2 |                | ----  | 90   | ---- | Deg. |
| Dominant Wavelength | λ d     |                | 585   | ---- | 595  | nm   |

Luminous Flux Bins (Ta = 25°C)

Unit:lm

| Bin | G  | H  |
|-----|----|----|
| Min | 30 | 40 |
| Max | 40 | 50 |