

Series L5 / Ø 5mm

Colour: white

Sloan Part No.: L5-W53N-BVW

Electrical and Optical Characteristics (T_A = 25°C)

| Chip | | | Lens | Absolute Maximum Ratings | | | Electro-Optical-Data's at 20mA | | | | | | Viewing Angle 2 θ ½ (deg) |
|----------------|--------------------------|-------------------|-------------|--------------------------|---------|--------------|--------------------------------|------|------|-----------------------------|------|-------|------------------------------|
| Emitted Colour | Chromaticity Coordinates | Colour Temp. (°K) | | Pd (mW) | If (mA) | Peak If (mA) | Forward Voltage Vf (V) | | | Luminous Intensity Iv (mcd) | | | |
| | | | | | | | min. | typ. | max. | min. | typ. | max. | |
| white | x =0.31 y =0.32 | 5500-9000 | water clear | 105 | 30 | 100 | * - | 3.2 | 3.5 | 5200 | | 10400 | 45° |

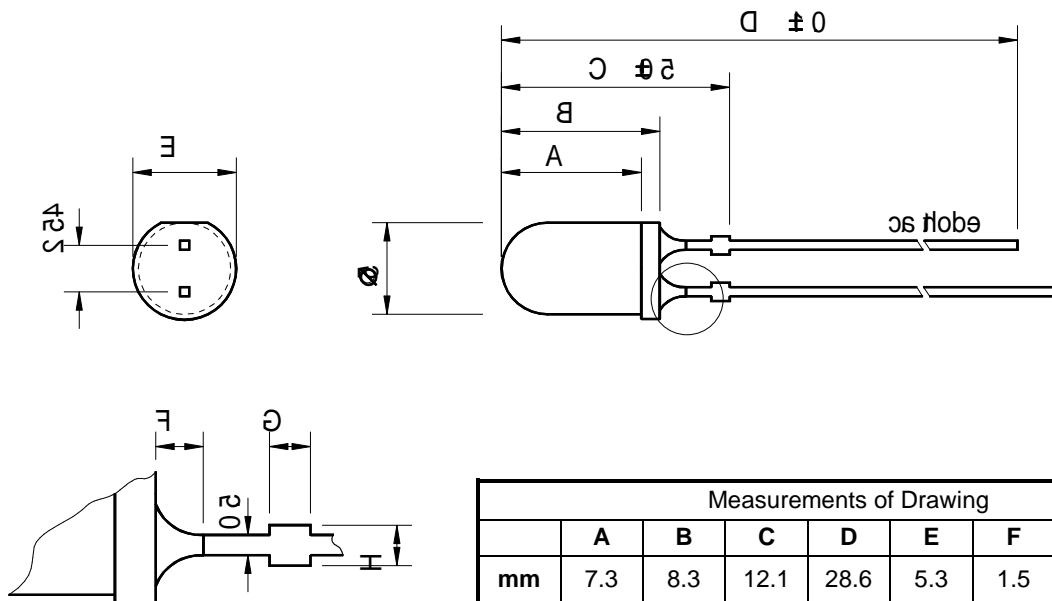
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)

* Minimum Forward Voltage is not exactly specified.

Absolute Maximum Ratings (T_A = 25°C)

| | |
|---|---------------------|
| Reverse Voltage | 5V |
| Reverse Current (V _R = 5V) | ≤50µA |
| Operating Temperature Range | - 30°C ~ +85°C |
| Storage Temperature Range | - 40°C ~ +100°C |
| Lead Soldering Temperature (3mm below the body) | 350°C for 3 seconds |

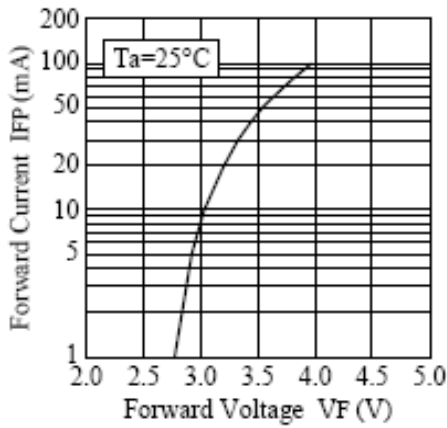
Package Dimensions



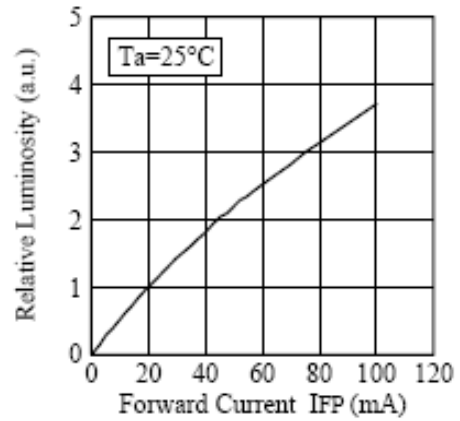
1. All dimensions are in millimetres.
2. Tolerance is ±0.25mm unless otherwise specified.
3. Lead spacing is measured where the leads emerge from the package
4. Specifications are subject to change without notice.

Electrical and Optical Characteristics ($T_A = 25^\circ\text{C}$)

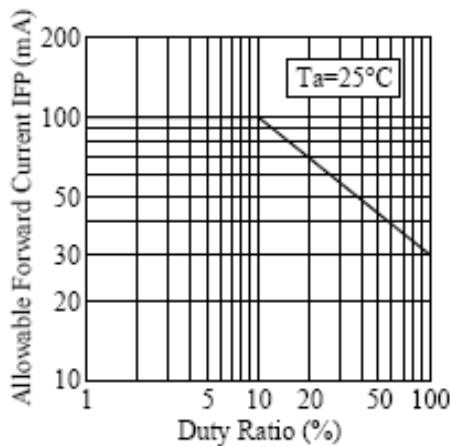
Forward Voltage vs. Forward Current



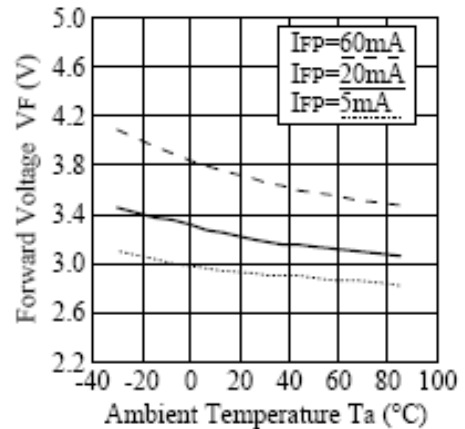
Forward Current vs. Relative Luminosity



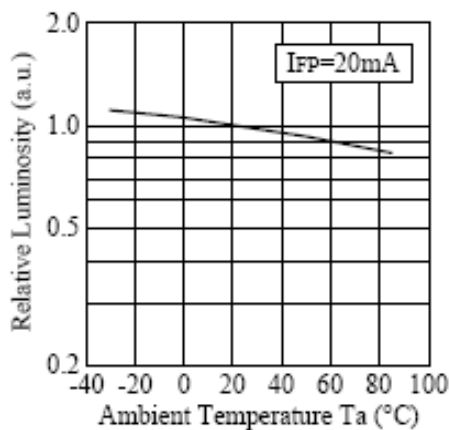
Duty Ratio vs. Allowable Forward Current



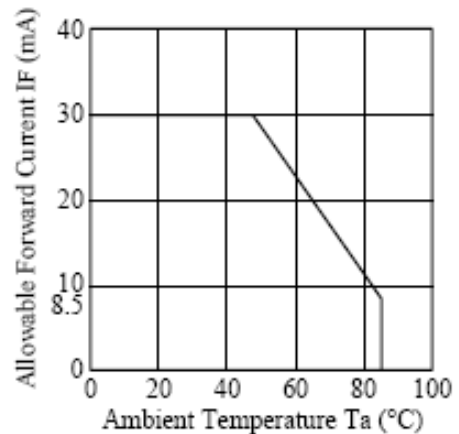
Ambient Temperature vs. Forward Voltage



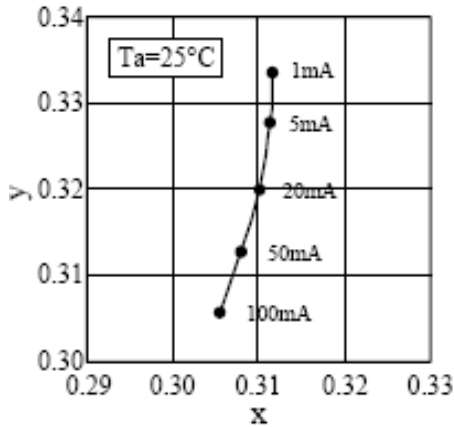
Ambient Temperature vs. Relative Luminosity



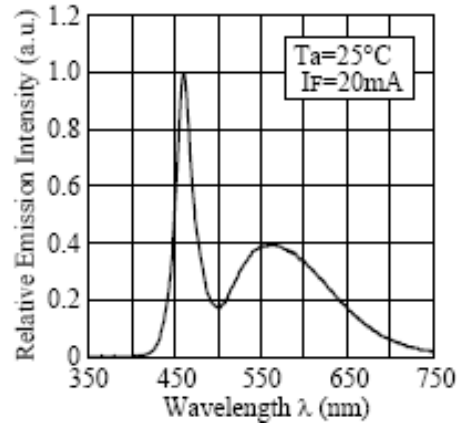
Ambient Temperature vs. Allowable Forward Current



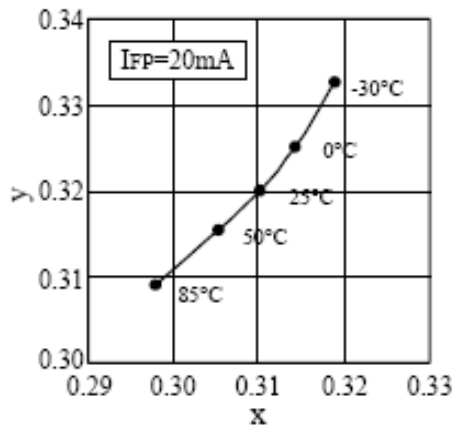
Forward Current vs. Chromaticity Coordinate



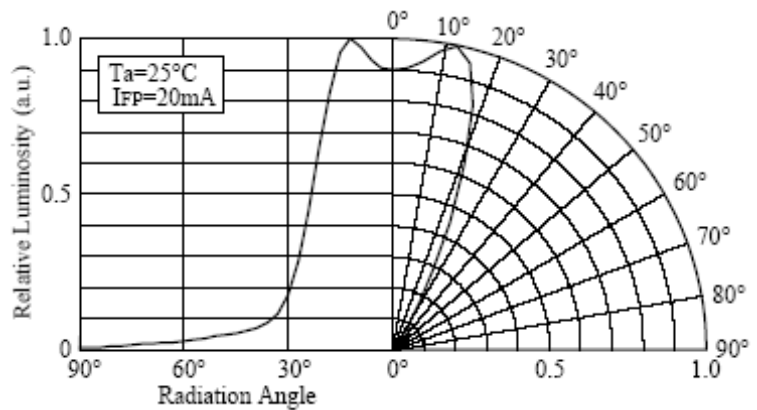
Spectrum



Ambient Temperature vs. Chromaticity Coordinate



Directivity



Recommended soldering conditions

| | Dip Soldering | Hand Soldering |
|------------------|---|--|
| Pre-Heat | 120°C Max. | Temperature |
| Pre-Heat Time | 60 seconds Max. | Soldering Time |
| Solder Bath | 260°C Max. | Position |
| Temperature | | No closer than 3 mm from the base of the epoxy bulb. |
| Dipping Time | 10 seconds Max. | |
| Dipping Position | No lower than 3 mm from the base of the epoxy bulb. | |



SLOAN AG
Birmannsgasse 8
CH-4009 Basel
Tel. ++41 61 264 10 60
Fax. ++41 61 264 10 75
info@sloan-basel.com