

Display

TS731A | SPBWH1732S1B



Features

- LED for Narrow Bezel TV
- Side View type LED
- High Flux



Absolute Maximum Ratings

Ta = 25°C

| Item | I _F (mA) | *I _{FP} (mA) | T _{stg} (°C) | T _{opr} (°C) |
|-------|---------------------|-----------------------|-----------------------|-----------------------|
| Value | 200 | 120 | -40 ~ 100 | -40 ~ 85 |

Electrical Characteristics

Ta = 25°C

| Item | Symbol | Condition | Rank | Min. | Typical | Max. | Unit |
|-----------------|----------------|-------------------------|------|-------|---------|-------|------|
| Forward Voltage | VF | I _F = 120 mA | | 2.95 | | 3.4 | V |
| Reverse Current | VR | I _R = 5 mA | | 0.7 | | 1.2 | V |
| Luminous Flux | I _v | I _F = 120 mA | | 9.86 | | 13.84 | cd |
| Peak Wavelength | Wp | I _F = 120 mA | | 438.1 | | 455.9 | nm |

Optical Characteristics

Ta = 25°C

| Part Number | Dimension (mm ²) | CIE | Luminous Intensity | | | Condition | Viewing Angle |
|--------------|------------------------------|-----|--------------------|--------------|-----------|-----------|---------------|
| | | | Min. (cd) | Typical (cd) | Max. (cd) | | |
| SPBWH1732S1B | 7.0X3.2X1.1t | - | 9.86 | - | 13.84 | 120mA | 120° |

Chromaticity Coordinate

Ta = 25°C, I_F = 120mA

| Rank | Color coordinates (CIE XY, 1931) | | | |
|------|----------------------------------|--------|--------|--------|
| X | 0.2438 | 0.2802 | 0.2882 | 0.2518 |
| Y | 0.2059 | 0.2724 | 0.2681 | 0.2016 |

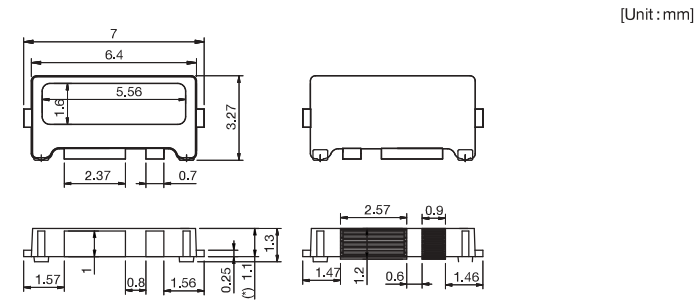
* Tolerance: VF(VR) : ± 0.1 V, I_v : ± 10%, Wp : ± 1.0 nm

Chromaticity Coordinate (x, y) : ± 0.01

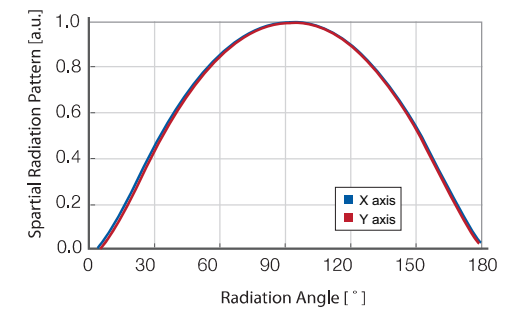
* Measuring Instrument : CAS140B

Package Outline

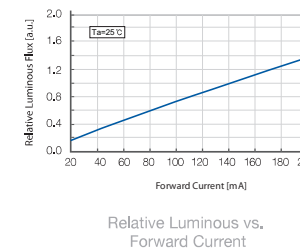
Radiation Diagram



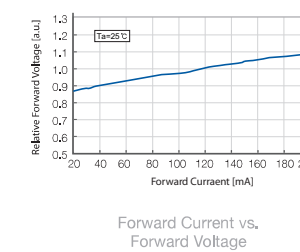
[Unit : mm]



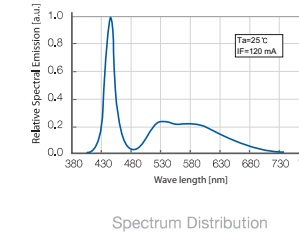
Optical & Electrical Characteristics



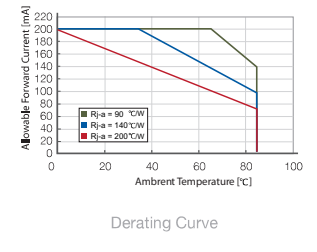
Relative Luminous vs. Forward Current



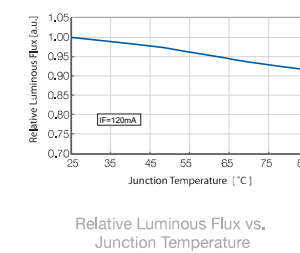
Forward Current vs. Forward Voltage



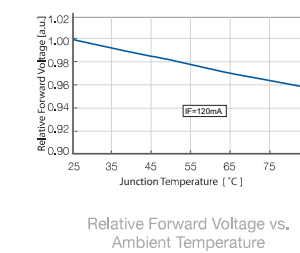
Spectrum Distribution



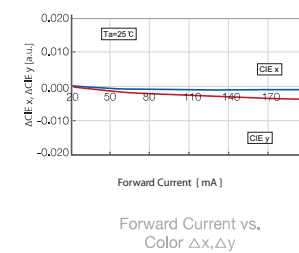
Derating Curve



Relative Luminous Flux vs. Junction Temperature



Relative Forward Voltage vs. Ambient Temperature



Forward Current vs. Color Δx, Δy