

高輝度白色  
表面実装  
トップビューパッケージ

High-Brightness White  
SMD Top View Package

# LW821 series



| 品番<br>Part No. | 発光色<br>Emitted Color | チップ<br>Chip | 特徴<br>Features                                                      | サイズ(mm)<br>Size  |
|----------------|----------------------|-------------|---------------------------------------------------------------------|------------------|
| LW821-1**2780  | ●                    | 1in1        | 高輝度・高演色・小型・薄型 / High Brightness・High color-rendering・Small・ThinType | 3.0×1.4<br>t=1.2 |
| LW821-1**3080  | ●                    | 1in1        | 高輝度・高演色・小型・薄型 / High Brightness・High color-rendering・Small・ThinType |                  |
| LW821-1**4080  | ●                    | 1in1        | 高輝度・高演色・小型・薄型 / High Brightness・High color-rendering・Small・ThinType |                  |
| LW821-1**5080  | ●                    | 1in1        | 高輝度・高演色・小型・薄型 / High Brightness・High color-rendering・Small・ThinType |                  |
| LW821-1**5780  | ●                    | 1in1        | 高輝度・高演色・小型・薄型 / High Brightness・High color-rendering・Small・ThinType |                  |
| LW821-1**6580  | ●                    | 1in1        | 高輝度・高演色・小型・薄型 / High Brightness・High color-rendering・Small・ThinType |                  |

## 最大定格 MAXIMUM RATINGS

Ta=25°C

| Item   | 逆電圧<br>Reverse Voltage | 順電流<br>Forward Current | 許容損失<br>Power Dissipation | 動作温度<br>Operating Temp. | 保存温度<br>Storage Temp. | 半田付け温度<br>Soldering Temp. |     |
|--------|------------------------|------------------------|---------------------------|-------------------------|-----------------------|---------------------------|-----|
| Symbol | V <sub>R</sub>         | I <sub>F</sub>         | P <sub>D</sub>            | T <sub>opr.</sub>       | T <sub>stg.</sub>     | T <sub>sol.</sub>         |     |
| Unit   | V                      | mA                     | mW                        | °C                      | °C                    | °C                        |     |
| Data   | LW821-1AB****          | 5                      | 30                        | 102                     | -30~+85               | -40~+100                  | 260 |

※最大5秒以内  
Maximum 5s

## 電気的光学的特性

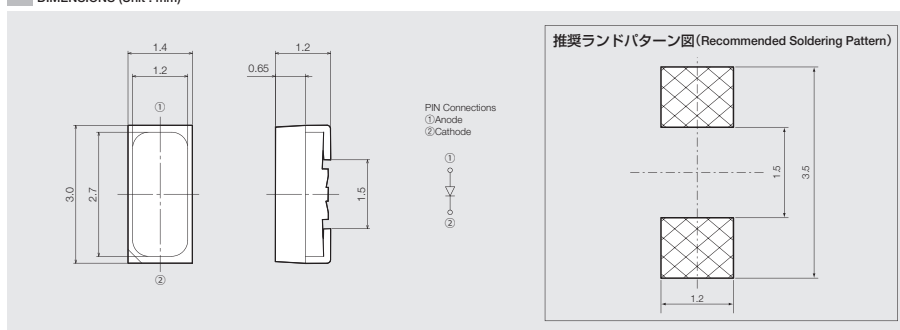
### ELECTRO-OPTICAL CHARACTERISTICS

Ta=25°C

| Item   | 順電圧<br>Forward Voltage | 色度<br>Chromaticity         | 光度<br>Luminous Intensity | 光束<br>Luminous Flux | 平均演色性評価値<br>General Color Rendering Index | 指向角<br>Viewing Angle | 順電流条件<br>IF Conditions |
|--------|------------------------|----------------------------|--------------------------|---------------------|-------------------------------------------|----------------------|------------------------|
| Symbol | V <sub>F</sub>         | (x, y)                     | I <sub>V</sub>           | Φ <sub>V</sub>      | Ra                                        | 2θ 1/2               |                        |
| Unit   | V                      | -                          | cd                       | lm                  | -                                         | deg                  | mA                     |
| Data   | LW821-1**2780          | 2.6 2.9 3.4 (0.458, 0.410) | 1.5 2.1 -                | (5.6)               | 80                                        | 115                  | 20                     |
|        | LW821-1**3080          | 2.6 2.9 3.4 (0.435, 0.405) | 1.5 2.2 -                | (5.9)               | 80                                        |                      |                        |
|        | LW821-1**4080          | 2.6 2.9 3.4 (0.385, 0.380) | 1.5 2.4 -                | (6.4)               | 80                                        |                      |                        |
|        | LW821-1**5080          | 2.6 2.9 3.4 (0.345, 0.355) | 1.5 2.4 -                | (6.4)               | 80                                        |                      |                        |
|        | LW821-1**5780          | 2.6 2.9 3.4 (0.330, 0.340) | 1.5 2.4 -                | (6.4)               | 80                                        |                      |                        |
|        | LW821-1**6580          | 2.6 2.9 3.4 (0.313, 0.325) | 1.5 2.4 -                | (6.4)               | 80                                        |                      |                        |

## 外形寸法

DIMENSIONS (Unit : mm)



## 特徴 FEATURES

- 高輝度  
High Brightness
- 高演色性  
High Color-Rendering
- 小型表面実装パッケージ  
Small SMD Package
- 薄型  
Thin type

## 用途 APPLICATIONS

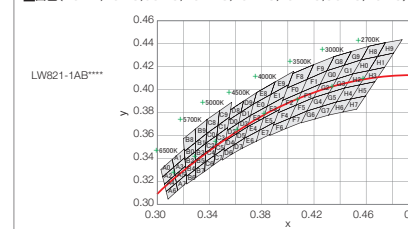
- バックライト光源  
Back Light Source
- 電飾  
Illuminations
- 表示灯  
Indicators
- 遊技機器  
Amusement
- 照明  
Lighting



## 色度ランク分類

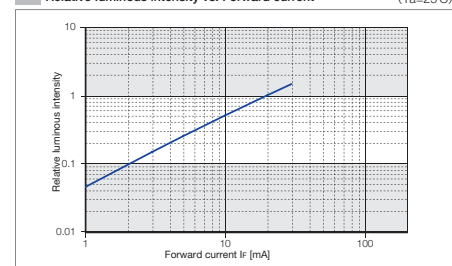
### CHROMATICITY COORDINATES RANK

■白色(A0~7,B0~9,C0~9,D0~D9,E0~E9,F0~F9,G0~9,H0~9)



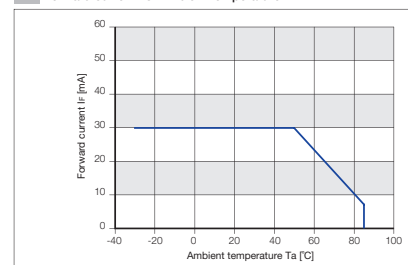
## 光度・順電流特性

Relative luminous intensity vs. Forward current (Ta=25°C)



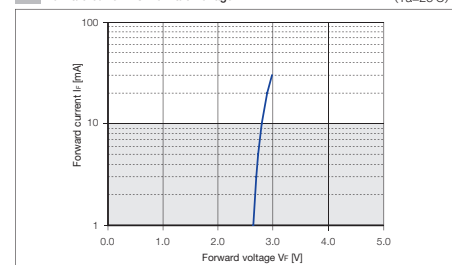
## 順電流・周囲温度特性

Forward current vs. Ambient temperature



## 順電流・順電圧特性

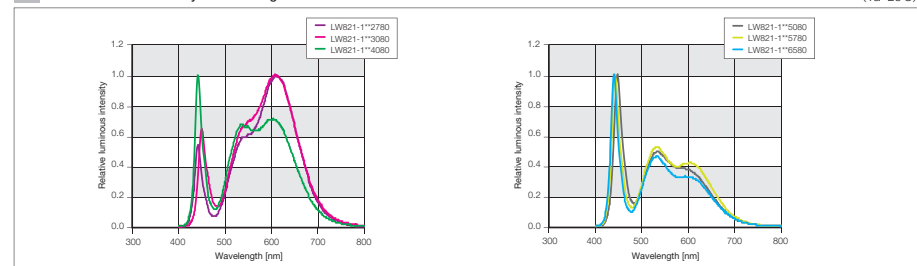
Forward current vs. Forward voltage (Ta=25°C)



## 発光波長分布特性

Relative luminous intensity vs. Wavelength

(Ta=25°C)



## 指向特性

Radiation pattern

