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# LNJ337W83RA

## Hight Bright Surface Mounting Chip LED

#### ESS II Type

## $\blacksquare$ Absolute Maximum Ratings $\,T_a \!=\! 25^{\circ}C$

| Parameter                     | Symbol           | Rating      | Unit |  |
|-------------------------------|------------------|-------------|------|--|
| Power dissipation             | $P_{\mathrm{D}}$ | 55          | mW   |  |
| Forward current               | $I_{\mathrm{F}}$ | 20          | mA   |  |
| Pulse forward current *       | $I_{FP}$         | 60          | mA   |  |
| Reverse voltage               | V <sub>R</sub>   | 4           | V    |  |
| Operating ambient temperature | T <sub>opr</sub> | -30 to +85  | °C   |  |
| Storage temperature           | T <sub>stg</sub> | -40 to +100 | °C   |  |

Note) \*: The condition of I<sub>FP</sub> is duty 10%, Pulse width 1 msec.

#### ■ Lighting Color

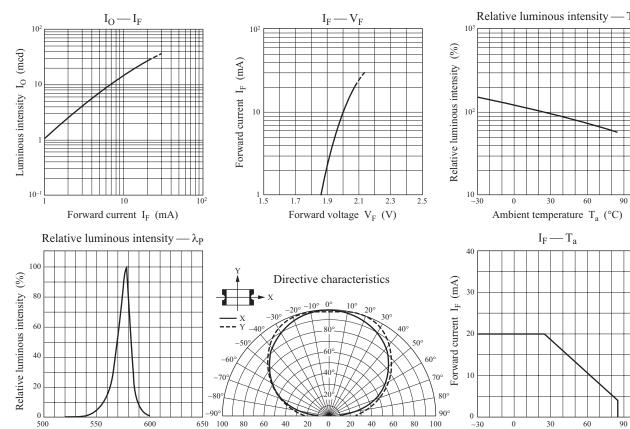
• Yellow Green

### ■ Electro-Optical Characteristics $T_a = 25$ °C±3°C

| Parameter                       | Symbol                 | Conditions           | Min | Тур  | Max  | Unit |
|---------------------------------|------------------------|----------------------|-----|------|------|------|
| Luminous intensity *1           | I <sub>O</sub>         | $I_F = 5 \text{ mA}$ | 4.0 | 7.5  | 28.0 | mcd  |
| Reverse current                 | I <sub>R</sub>         | $V_R = 4 V$          |     |      | 100  | μΑ   |
| Forward voltage                 | $V_{\rm F}$            | $I_F = 5 \text{ mA}$ |     | 1.95 | 2.30 | V    |
| Peak emission wavelength        | $\lambda_{\mathrm{P}}$ | $I_F = 5 \text{ mA}$ |     | 575  |      | nm   |
| Dominant emission wavelength *2 | $\lambda_{\mathrm{d}}$ | $I_F = 5 \text{ mA}$ | 566 | 572  | 576  | nm   |
| Spectral half band width        | Δλ                     | $I_F = 5 \text{ mA}$ |     | 20   |      | nm   |

Note) \*1: Measurement tolerance: ±20%

Peak emission wavelength  $\lambda_P$  (nm)



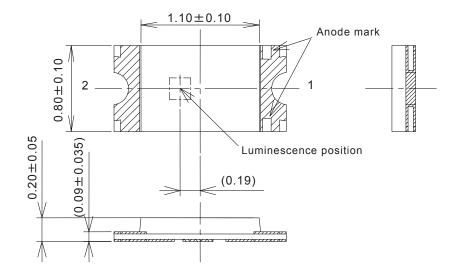
Relative luminous intensity (%)

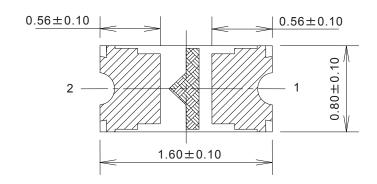
20

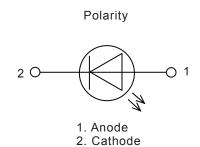
Ambient temperature T<sub>a</sub> (°C)

<sup>\*2:</sup> Measurement tolerance: ±2 nm

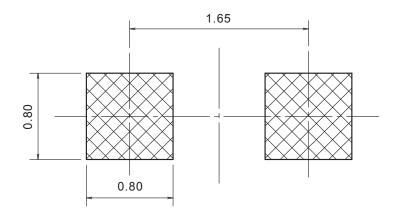
### ■ Package (Unit: mm)







Recommended Land Layout



(Note1)Electrode projection is not included in the package dimensions. (Note2)About solder thickness, please examine the products yourself completely. (Recommended thickness:  $t=0.10 \text{ mm} \sim 0.15 \text{ mm}$ )

2 Ver. CEK

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