



- 超小型のチップLEDです。
- 光度は、弊社小型サイズ品と同様の特性を有しています。
- Compact chip LED
- Brightness and other properties are the same as those of our other compact products.

発光色のラインアップにつきましては、発注時にお問い合わせの上、ご確認ください。  
Please contact us at the time of order for the lineup of luminescent colors.

## ●絶対最大定格/Absolute Maximum Rating (Ta 25°C)

| Product code                            | Pd (mW) | I <sub>F</sub> (mA) | I <sub>FP</sub> (mA) | V <sub>R</sub> (V) | Top (°C) | Tst (°C) |
|---|---------|---------------------|----------------------|--------------------|----------|----------|
| CL-281 (UR,HRを除く)<br>(Except UR and HR) | 50      | 20                  | 100*1                | 5                  | -25~+80  | -30~+85  |
| CL-281UR/HR                             | 78      | 30                  |                      |                    |          |          |

\*1 I<sub>FP</sub>の条件はduty 1/10、パルス巾30msecです。

\*1 Condition for I<sub>FP</sub> is pulse of 1/10 duty and 30msec width.

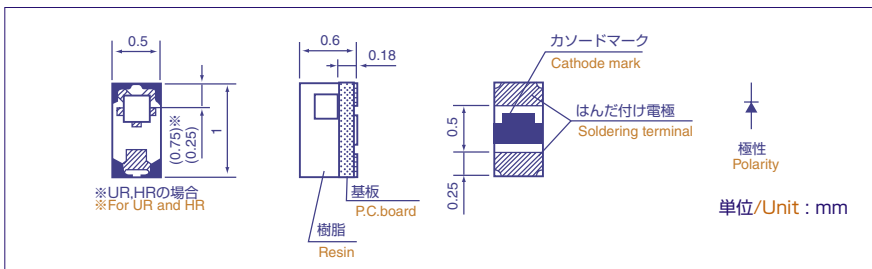
## ●電気的光学的特性/Electro-optical Characteristics (Ta 25°C)

| Product code | Lighting color          | V <sub>F</sub>      |         |         | λ <sub>p</sub> (nm) | Δλ (nm) | I <sub>V</sub> * (mcd) |           |           |
|--------------|-------------------------|---------------------|---------|---------|---------------------|---------|------------------------|-----------|-----------|
|              |                         | I <sub>F</sub> (mA) | typ (V) | max (V) |                     |         | I <sub>F</sub> (mA)    | min (mcd) | typ (mcd) |
| CL-281R      | Red                     | 20                  | 2.2     | 2.6     | 700                 | 100     | 20                     | 0.5       | 1.3       |
| CL-281D      | Orange                  | 20                  | 2.2     | 2.6     | 605                 | 40      | 20                     | 2.4       | 7.1       |
| CL-281Y      | Yellow                  | 20                  | 2.1     | 2.6     | 589                 | 40      | 20                     | 2.6       | 6.4       |
| CL-281YG     | Yellow green            | 20                  | 2.2     | 2.6     | 570                 | 30      | 20                     | 5         | 18        |
| CL-281G      | Green                   | 20                  | 2.2     | 2.6     | 567                 | 26      | 20                     | 2.5       | 10        |
| CL-281FG     | Fresh green             | 20                  | 2.2     | 2.6     | 560                 | 26      | 20                     | 2.2       | 6.5       |
| CL-281PG     | Pure green              | 20                  | 2.2     | 2.6     | 557                 | 24      | 20                     | 1         | 3         |
| CL-281SR     | Super brightness red    | 20                  | 2       | 2.6     | 650                 | 40      | 20                     | 1.5       | 4.3       |
| CL-281SD     | Super brightness orange | 20                  | 2       | 2.6     | 630                 | 40      | 20                     | 2         | 6.2       |
| CL-281UR     | Ultra brightness red    | 20                  | 1.8     | 2.6     | 660                 | 20      | 20                     | 3.5       | 13        |
| CL-281HR     | High brightness red     | 20                  | 1.8     | 2.6     | 660                 | 20      | 20                     | 5         | 23        |

\*NIST規格に準拠

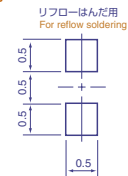
\*Per NIST standards

## ●外形寸法図/Outline drawing



### 推奨はんだ付けパターン

The following soldering patterns are recommended for reflow-soldering:



## ■ 諸特性 / Characteristics

