

### Absolute Maximum Ratings

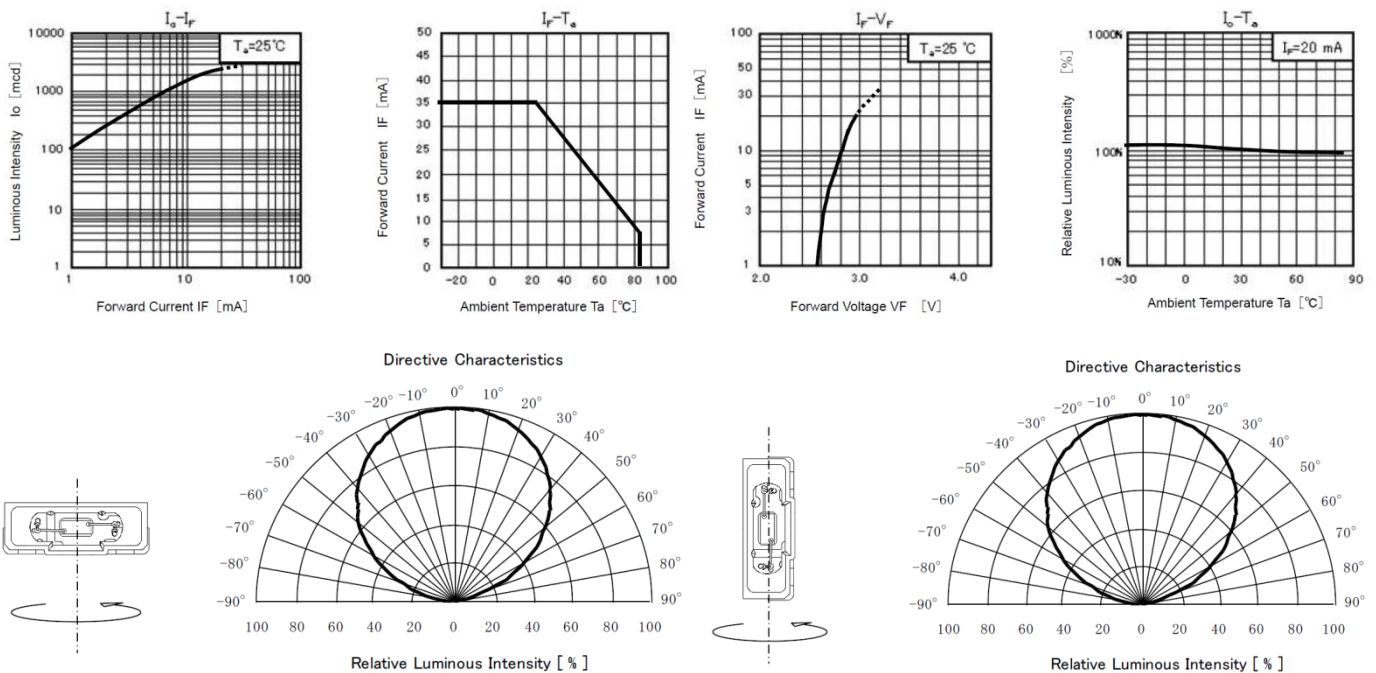
| Item                             | Symbol    | Ratings    | Unit | Remarks |
|----------------------------------|-----------|------------|------|---------|
| Power dissipation                | $P_D$     | 120        | mW   |         |
| Forward current                  | $I_{FDC}$ | 35         | mA   |         |
| Pulse Forward current<br>(Note1) | $I_{FP}$  | 100        | mA   |         |
| Reverse voltage                  | $V_R$     | 5          | V    |         |
| Operating ambient temperature    | $T_{opr}$ | -30 ~ +85  | °C   |         |
| Storage temperature              | $T_{stg}$ | -40 ~ +100 | °C   |         |

(Note1) The condition of  $I_{FP}$  is duty 10 %, pulse width 10 ms.

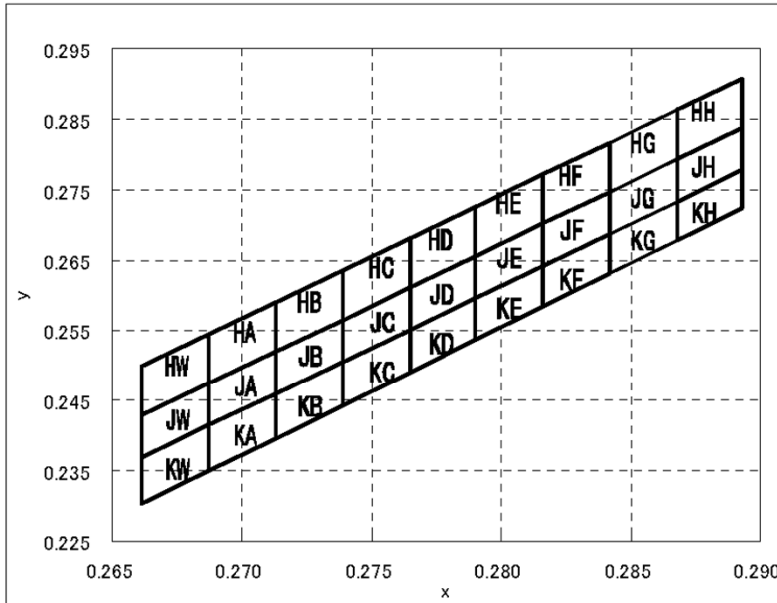
### Electrical-Optical Characteristics

| Item                                | Symbol | Condition        | Min.                                | Typ. | Max. | Unit |
|-------------------------------------|--------|------------------|-------------------------------------|------|------|------|
| Forward voltage (Note3)             | $V_F$  | $I_F = 20$ mA DC | 2.8                                 | —    | 3.2  | V    |
| Reverse current                     | $I_R$  | $V_R = 5$ V      | —                                   | —    | 5.0  | μA   |
| Luminous Intensity<br>(Note2)       | $I_o$  | $I_F = 20$ mA DC | 2210                                | —    | 2630 | mcd  |
| Chromaticity Coordinates<br>(Note5) | x      | $I_F = 20$ mA DC | Rank classification of chromaticity |      |      | —    |
|                                     | y      | $I_F = 20$ mA DC |                                     |      |      |      |

(Note2) Rank classification of Luminous Intensity  
Measurement tolerance is ±5 %



(Note5) Rank classification of chromaticity ※Condition :  $I_F = 20\text{mA}$

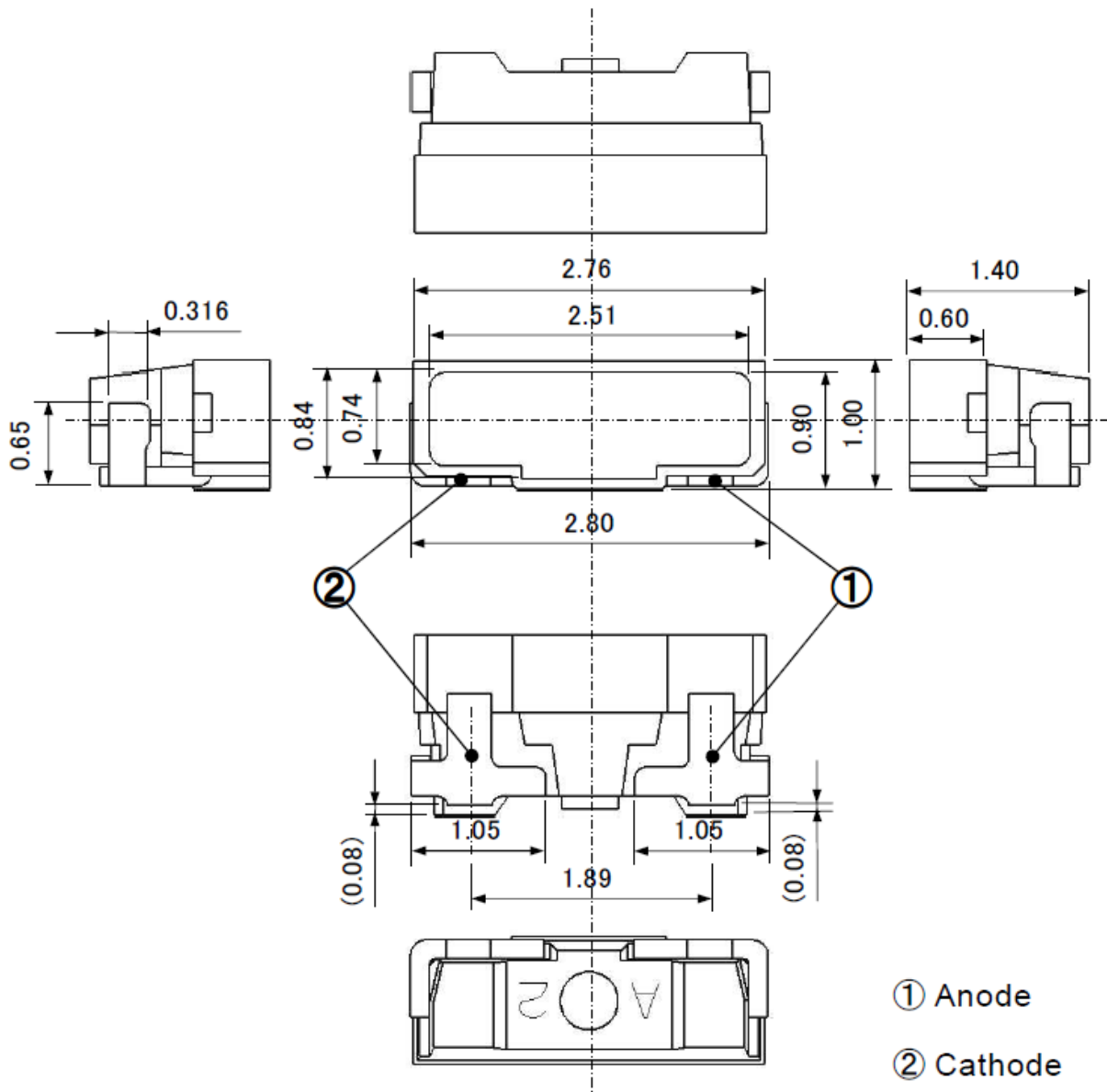


| HW     |        | HA     |        | HB     |        | HC     |        | HD     |        | HE     |        | HF     |        | HG     |        | HH     |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.2661 | 0.2499 | 0.2687 | 0.2545 | 0.2713 | 0.2590 | 0.2739 | 0.2635 | 0.2765 | 0.2681 | 0.2790 | 0.2726 | 0.2816 | 0.2772 | 0.2842 | 0.2817 | 0.2868 | 0.2863 |
| 0.2687 | 0.2545 | 0.2713 | 0.2590 | 0.2739 | 0.2635 | 0.2765 | 0.2681 | 0.2790 | 0.2726 | 0.2816 | 0.2772 | 0.2842 | 0.2817 | 0.2868 | 0.2863 | 0.2893 | 0.2908 |
| 0.2687 | 0.2475 | 0.2713 | 0.2520 | 0.2739 | 0.2565 | 0.2765 | 0.2611 | 0.2790 | 0.2656 | 0.2816 | 0.2702 | 0.2842 | 0.2747 | 0.2868 | 0.2793 | 0.2893 | 0.2838 |
| 0.2661 | 0.2429 | 0.2687 | 0.2475 | 0.2713 | 0.2520 | 0.2739 | 0.2565 | 0.2765 | 0.2611 | 0.2790 | 0.2656 | 0.2816 | 0.2702 | 0.2842 | 0.2747 | 0.2868 | 0.2793 |
| JW     |        | JA     |        | JB     |        | JC     |        | JD     |        | JE     |        | JF     |        | JG     |        | JH     |        |
| 0.2661 | 0.2429 | 0.2687 | 0.2475 | 0.2713 | 0.2520 | 0.2739 | 0.2565 | 0.2765 | 0.2611 | 0.2790 | 0.2656 | 0.2816 | 0.2702 | 0.2842 | 0.2747 | 0.2868 | 0.2793 |
| 0.2687 | 0.2475 | 0.2713 | 0.2520 | 0.2739 | 0.2565 | 0.2765 | 0.2611 | 0.2790 | 0.2656 | 0.2816 | 0.2702 | 0.2842 | 0.2747 | 0.2868 | 0.2793 | 0.2893 | 0.2838 |
| 0.2687 | 0.2415 | 0.2713 | 0.2460 | 0.2739 | 0.2505 | 0.2765 | 0.2551 | 0.2790 | 0.2596 | 0.2816 | 0.2642 | 0.2842 | 0.2687 | 0.2868 | 0.2733 | 0.2893 | 0.2778 |
| 0.2661 | 0.2369 | 0.2687 | 0.2415 | 0.2713 | 0.2460 | 0.2739 | 0.2505 | 0.2765 | 0.2551 | 0.2790 | 0.2596 | 0.2816 | 0.2642 | 0.2842 | 0.2687 | 0.2868 | 0.2733 |
| JW     |        | KA     |        | KB     |        | KC     |        | KD     |        | KE     |        | KF     |        | KG     |        | KH     |        |
| 0.2661 | 0.2369 | 0.2687 | 0.2415 | 0.2713 | 0.2460 | 0.2739 | 0.2505 | 0.2765 | 0.2551 | 0.2790 | 0.2596 | 0.2816 | 0.2642 | 0.2842 | 0.2687 | 0.2868 | 0.2733 |
| 0.2687 | 0.2415 | 0.2713 | 0.2460 | 0.2739 | 0.2505 | 0.2765 | 0.2551 | 0.2790 | 0.2596 | 0.2816 | 0.2642 | 0.2842 | 0.2687 | 0.2868 | 0.2733 | 0.2893 | 0.2778 |
| 0.2687 | 0.2350 | 0.2713 | 0.2396 | 0.2739 | 0.2443 | 0.2765 | 0.2490 | 0.2790 | 0.2537 | 0.2816 | 0.2584 | 0.2842 | 0.2631 | 0.2868 | 0.2678 | 0.2893 | 0.2724 |
| 0.2661 | 0.2303 | 0.2687 | 0.2350 | 0.2713 | 0.2396 | 0.2739 | 0.2443 | 0.2765 | 0.2490 | 0.2790 | 0.2537 | 0.2816 | 0.2584 | 0.2842 | 0.2631 | 0.2868 | 0.2678 |

Measurement tolerance  $\pm 0.005$

- We call the area which is composed by the above points Rank of chromaticity.
- The warranty only applies  $I_F = 20\text{mA}$ . Please keep in mind that no warranty is given to any other current region.
- We classify the LEDs according to the above Rank. Rank cannot be mixed within a reel.

■ Outline



Notes

1. General size tolerance ;  $\pm 0.1\text{mm}$
2. Dimension exclusive length of weld flash.
3. ( ) inside dimension method be a reference value.

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