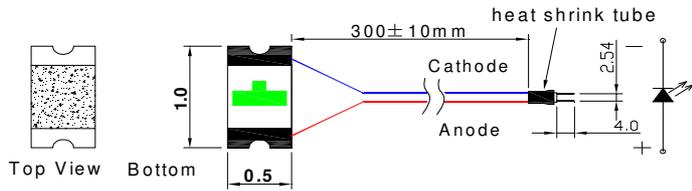


**■Features**

- Ø 0.25mm electric wire, length 300±10mm
- Super high brightness of surface mount LED
- Sorting for  $I_v$  and  $V_f$  @ 5mA of  $I_f$
- Compact package outline  
(LxWxT) of 1.0mm x 0.5mm x 0.4mm

**■Outline Dimension**



Notes: 1. All dimensions are in millimeters ;  
2. Tolerance is ± 0.10 mm unless otherwise noted.

**■Applications**

- Backlighting (switches, keys, etc.)
- Marker lights (e.g. steps, exit ways, etc.)

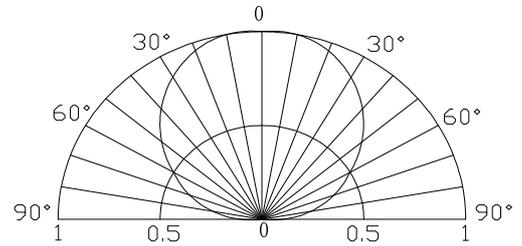
**■Absolute Maximum Rating**

( $T_a=25^{\circ}C$ )

| Item                       | Symbol    | Value                  |           | Unit        |
|----------------------------|-----------|------------------------|-----------|-------------|
|                            |           | HR /YG/ OR/YL          | BL/PG/W/M |             |
| DC Forward Current         | $I_F$     | 20                     | 20        | mA          |
| Pulse Forward Current#     | $I_{FP}$  | 100                    | 100       | mA          |
| Reverse Voltage            | $V_R$     | 5                      | 5         | V           |
| Power Dissipation          | $P_D$     | 48                     | 64        | mW          |
| Operating Temperature      | $T_{opr}$ | -40 ~ +85              |           | $^{\circ}C$ |
| Storage Temperature        | $T_{stg}$ | -40~ +85               |           | $^{\circ}C$ |
| Lead Soldering Temperature | $T_{sol}$ | 260 $^{\circ}C$ /10sec |           | -           |

#Pulse width Max 0.1ms, Duty ratio max 1/10

**■Directivity**



**■Electrical -Optical Characteristics**

( $T_a=25^{\circ}C$ )

| Part Number      | Color        |    |   | $V_F$ (V) |      |      | $I_R$ ( $\mu A$ ) | $I_v$ (mcd) |      |      | $\lambda_D$ (nm)/CCT(K) |      |      | 2 $\theta$ 1/2(deg) |
|------------------|--------------|----|---|-----------|------|------|-------------------|-------------|------|------|-------------------------|------|------|---------------------|
|                  |              |    |   | Min.      | Typ. | Max. | Max.              | Min.        | Typ. | Max. | Min.                    | Typ. | Max. | Typ.                |
|                  |              |    |   | $I_F=5mA$ |      |      | $V_R=5V$          | $I_F=5mA$   |      |      |                         |      |      |                     |
| OSM50402C1C-WC30 | Warm White   | M  | ■ | 2.6       | 2.9  | 3.2  | 10                | 80          | 150  | -    | 2600-3200K              |      |      | 120                 |
| OSWA0402C1C-WC30 | Pure White   | W  | ■ | 2.6       | 2.9  | 3.2  | 10                | 80          | 150  | -    | 6500-9000K              |      |      | 120                 |
| OSB50402C1C-WC30 | Blue         | BL | ■ | 2.6       | 2.9  | 3.2  | 10                | 25          | 40   | -    | 460                     | 465  | 475  | 120                 |
| OSG50402C1C-WC30 | Pure Green   | PG | ■ | 2.6       | 2.7  | 3.2  | 10                | 120         | 250  | -    | 515                     | 525  | 530  | 120                 |
| OSG80402C1C-WC30 | Yellow Green | YG | ■ | 1.6       | 2.0  | 2.4  | 10                | 5           | 10   | -    | 565                     | 570  | 575  | 120                 |
| OSY50402C1C-WC30 | Yellow       | YL | ■ | 1.6       | 2.0  | 2.4  | 10                | 15          | 20   | -    | 585                     | 590  | 595  | 120                 |
| OSO50402C1C-WC30 | Orange       | OR | ■ | 1.6       | 2.0  | 2.4  | 10                | 15          | 30   | -    | 600                     | 605  | 610  | 120                 |
| OSR50402C1C-WC30 | Red          | HR | ■ | 1.6       | 2.0  | 2.4  | 10                | 25          | 40   | -    | 620                     | 625  | 630  | 120                 |

\*1 Tolerance of measurements of chromaticity coordinate is ±10%  
 \*2 Tolerance of measurements of dominant wavelength is ±1nm  
 \*3 Tolerance of measurements of luminous intensity is ±15%  
 \*4 Tolerance of measurements of forward voltage is ±0.1V

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