

# White LED

## SW603A-044

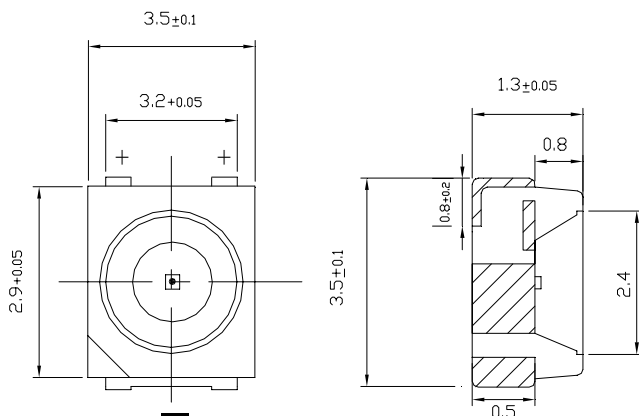
| Date      | Spec. Number | Ver.        |
|-----------|--------------|-------------|
| 2007/1/15 | TS-044-00    | PRELIMINARY |

### Device Selection Guide

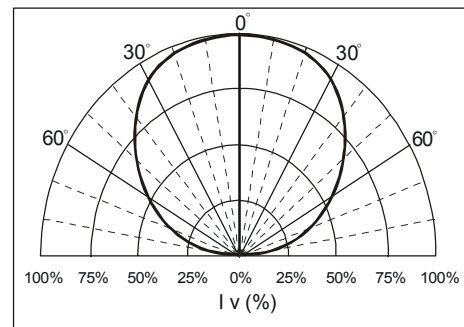
| Part Number<br>EOS- | Luminous Intensity<br>Iv(mcd) @ I <sub>F</sub> = 50mA |      | Viewing Angle<br>2θ <sub>1/2</sub> | Chromaticity<br>@ IF = 50 mA |         | Forward Voltage<br>V <sub>F</sub> (v) @ I <sub>F</sub> =50 mA |      | I <sub>R</sub> (μA)<br>@ V <sub>R</sub> = 5V |
|---------------------|-------------------------------------------------------|------|------------------------------------|------------------------------|---------|---------------------------------------------------------------|------|----------------------------------------------|
|                     | Min.                                                  | Typ. | Typ.                               | X(Typ.)                      | Y(Typ.) | Typ.                                                          | Max. | Max.                                         |
| SW603A-044          | 1800                                                  | 2400 | 120°                               | 0.31                         | 0.32    | 3.95                                                          | 4.25 | 10                                           |

| BIN #                                     | 4X        | 5X        | 4Y        |  |
|-------------------------------------------|-----------|-----------|-----------|--|
| Intensity (mcd)<br>@ I <sub>F</sub> =50mA | 1800-2240 | 2240-2850 | 2850-3550 |  |

### Package Dimensions



### Beam Pattern



#### Note:

- All dimensions are in millimeter.
- Tolerance is  $\pm 0.20\text{mm}$  unless otherwise note.
- Specifications are subject to be changed without notice.

### Absolute Maximum Ratings at T<sub>A</sub> = 25°C

| Parameter                           | Symbol            | Maximum Value     | USER---APPROVED |
|-------------------------------------|-------------------|-------------------|-----------------|
| Average Forward Current             | I <sub>F</sub>    | 50mA              |                 |
| Peak Forward Current <sup>[a]</sup> | I <sub>peak</sub> | 200mA             |                 |
| Reverse Voltage                     | V <sub>R</sub>    | 5V                |                 |
| Power Dissipation                   | P <sub>D</sub>    | 212.5mW           |                 |
| Operating Temperature Range         | T <sub>OPR</sub>  | -40°C ~ + 85°C    |                 |
| Storage Temperature Range           | T <sub>STO</sub>  | -40°C ~ + 100°C   |                 |
| Lead Soldering Temperature          | T <sub>SOL</sub>  | 260°C / 5 seconds |                 |

Notes: [a]  $t_p \leq 10 \mu s$ , Duty Cycle = 0.005

#### Headquarters

5F, No. 1, Creation Road II, Hsinchu Science Park,  
Hsinchu, Taiwan 300, R.O.C.  
Tel : 886-3-5679000 Fax : 886-3-5679999  
http://www.eoi.com.tw E-mail : Service@eoi.com.tw

#### U.S. Office

1400 W. Lambert Road, Suite B,  
Brea, CA92821, U.S.A  
Tel : 1-562-694-1246 Fax : 1-562-691-3087  
http://www.eoi-us.com E-mail : Sales@eoius.com

