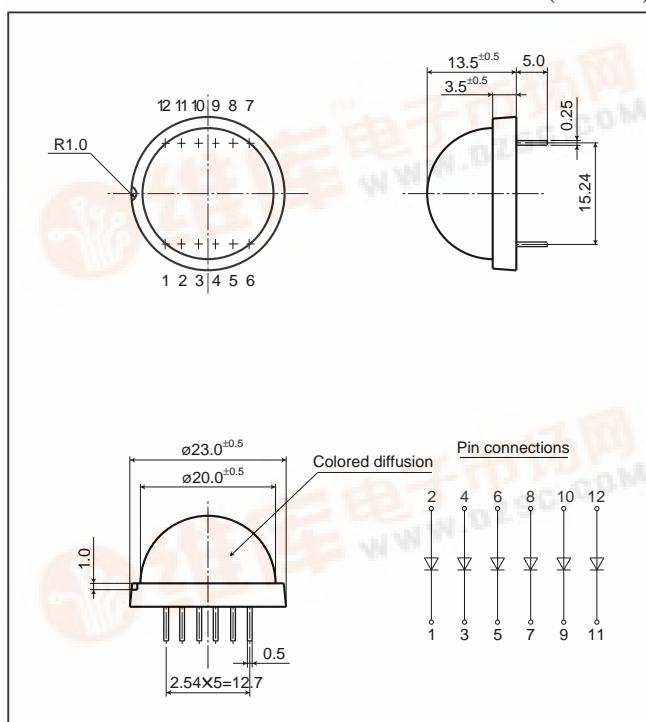


## LT9525□ series

ø20mm, Dome Type, Colored Diffusion, Large LED Lamps for Indoor Use

## ■ Outline Dimensions

(Unit : mm)



## ■ Absolute Maximum Ratings

(T<sub>a</sub>=25°C)

| Model No. | Radiation color | Radiation material | Power dissipation P <sup>*1</sup> (mW) | Forward current I <sub>F</sub> <sup>*2</sup> (mA) | Peak forward current I <sub>FM</sub> <sup>*2*3</sup> (mA) | Derating factor (mA/°C) <sup>*2</sup> |       | Reverse voltage V <sub>R</sub> <sup>*2</sup> (V) | Operating temperature T <sub>opr</sub> (°C) | Storage temperature T <sub>stg</sub> (°C) | Soldering temperature T <sub>sol</sub> <sup>*4</sup> (°C) |
|-----------|-----------------|--------------------|--|---|---|---------------------------------------|-------|--|---|---|---|
|           |                 |                    |  |   |   | DC                                    | Pulse |  |   |   |   |
| LT9525D   | Red             | GaAsP on GaP       | 1 010                                  | 60  | 100   | 1.09                                  | 1.82  | 5  | -25 to +70                                  | -30 to +80                                | 260   |
| LT9525S   | Sunset orange   | GaAsP on GaP       | 1 008                                  | 60  | 100   | 1.09                                  | 1.82  | 5  | -25 to +70                                  | -30 to +80                                | 260   |
| LT9525H   | Yellow          | GaAsP on GaP       | 625                                    | 40  | 100   | 0.73                                  | 1.82  | 5  | -25 to +70                                  | -30 to +80                                | 260   |
| LT9525E   | Yellow-green    | GaP                | 1 010                                  | 60  | 100   | 1.09                                  | 1.82  | 5  | -25 to +70                                  | -30 to +80                                | 260   |

\*1 Per lamp(6 chips/lamp)

\*2 Per chip

\*3 Duty ratio=1/10, Pulse width=0.1ms

\*4 5s or less(At the position of 1.6mm or more from the bottom face of resin package)

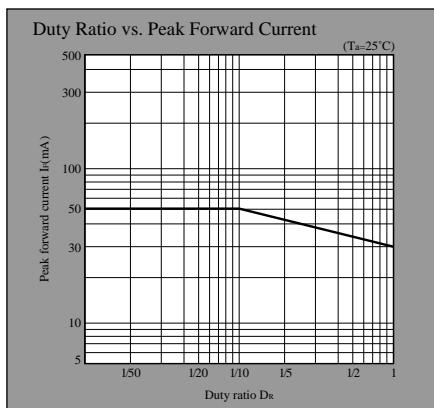
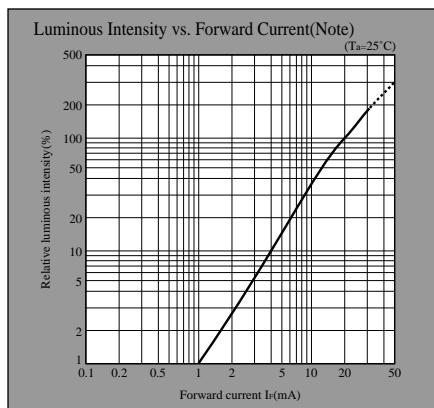
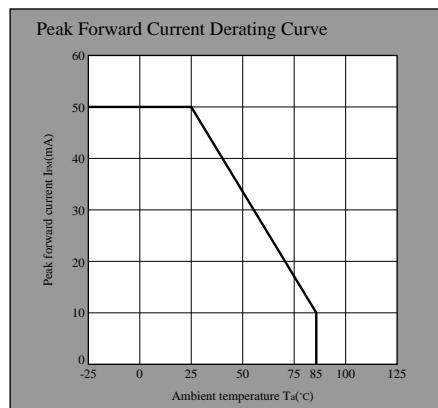
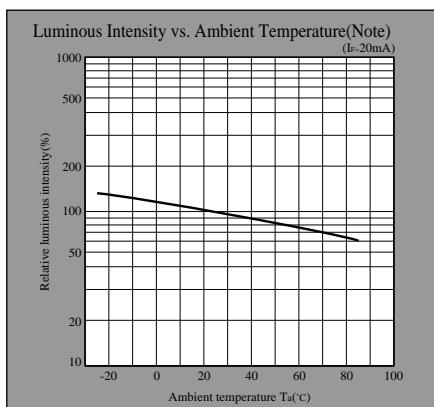
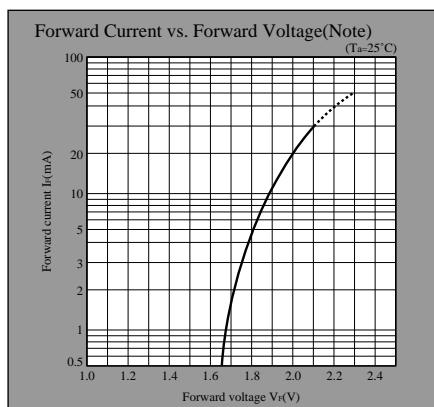
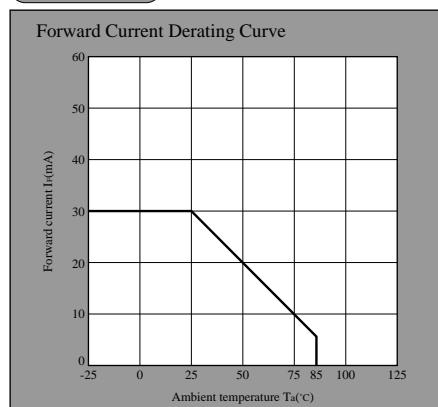
■ Electro-optical Characteristics<sup>\*5</sup>(T<sub>a</sub>=25°C)

| Lens type         | Model No. | Forward voltage V <sub>F</sub> (V) |     | Peak emission wavelength $\lambda_p$ (nm)<br>TYP | I <sub>F</sub> (mA)<br>TYP | Luminous intensity<br>I <sub>V</sub> (mcd)<br>TYP | Spectrum radiation bandwidth<br>$\Delta\lambda$ (nm)<br>TYP | I <sub>F</sub> (mA)<br>TYP | Reverse current            |                    | Terminal capacitance<br>C <sub>T</sub> (pF)<br>TYP | Page for<br>characteristics<br>diagrams |
|-------------------|-----------|------------------------------------|-----|--|----------------------------|---|---|----------------------------|----------------------------|--------------------|--|---|
|                   |           | TYP                                | MAX |  |                            |   |   |                            | I <sub>R</sub> (μA)<br>MAX | V <sub>R</sub> (V) |  |   |
| Colored diffusion | LT9525D   | 2.0                                | 2.8 | 635  | 40                         | 70  | 35  | 40                         | 10                         | 4                  | 35   | 1                                       |
|                   | LT9525S   | 2.0                                | 2.8 | 610  | 40                         | 80  | 40  | 40                         | 10                         | 4                  | 30   | 1                                       |
|                   | LT9525H   | 1.9                                | 2.6 | 585  | 20                         | 35  | 20  | 20                         | 10                         | 4                  | 30   | 1                                       |
|                   | LT9525E   | 2.0                                | 2.8 | 565  | 40                         | 70  | 40  | 40                         | 10                         | 4                  | 70   | 1                                       |

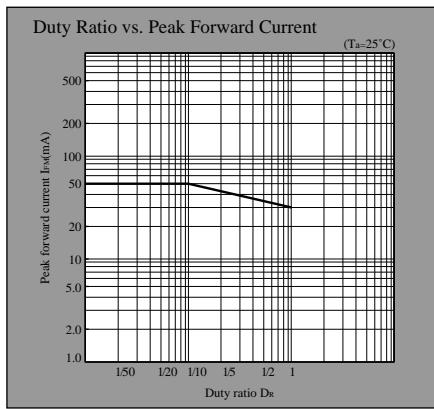
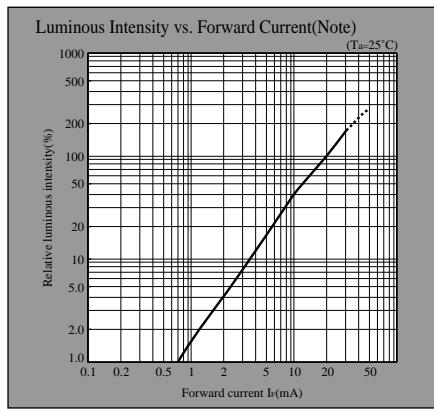
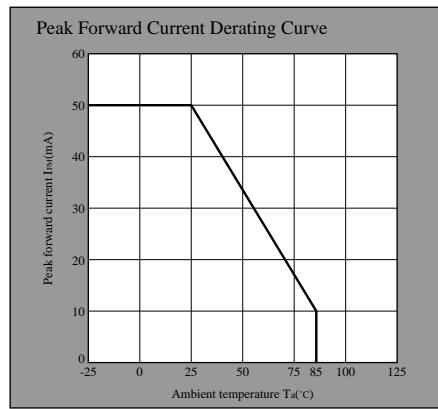
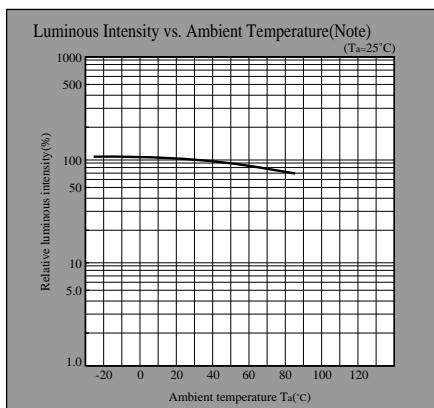
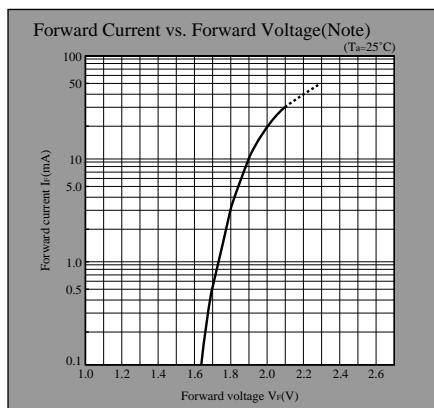
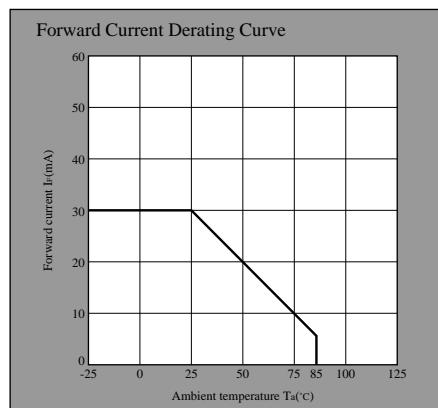
\*5 Luminous intensity per lamp at I<sub>F</sub>=40mA/chip(6 chips/lamp) Except LT9525H

# LED Lamp Characteristics Diagrams

## HS series



## HY series

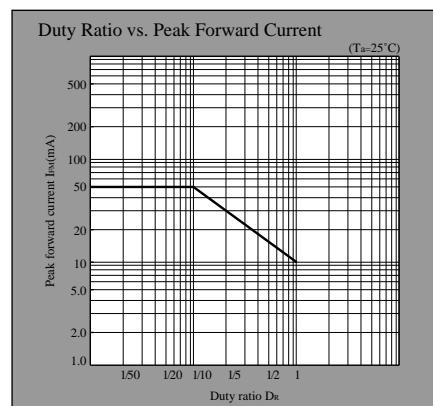
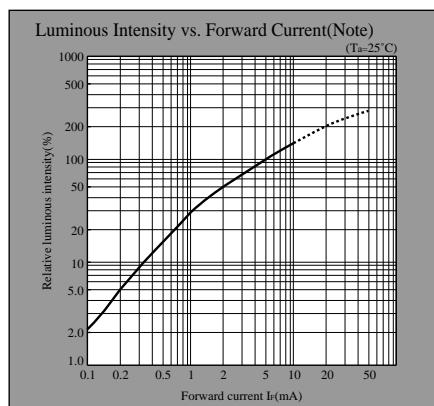
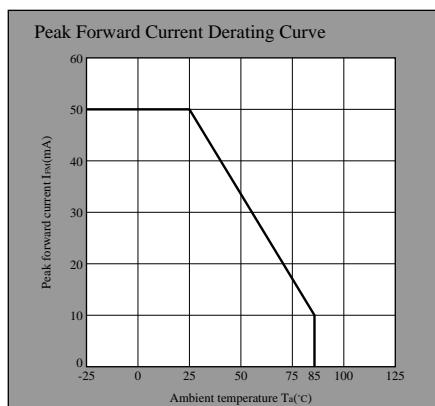
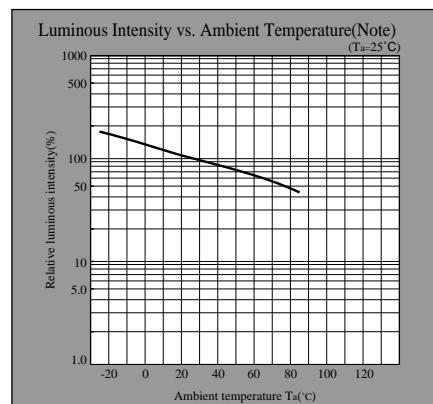
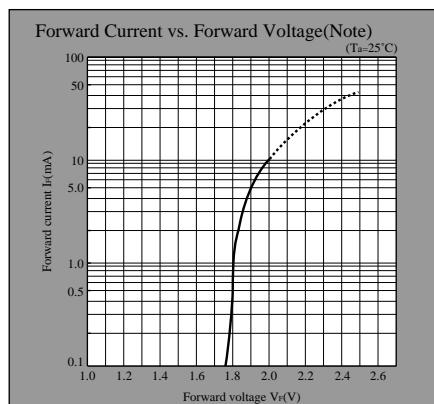
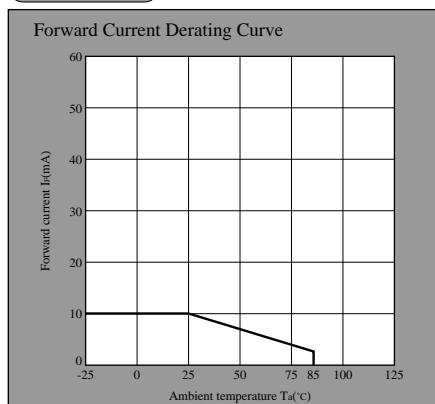


Note) Characteristics shown in diagrams are typical values. (not assurance value)

(Notice) • In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.

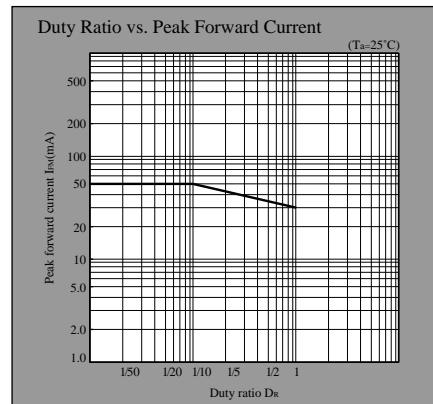
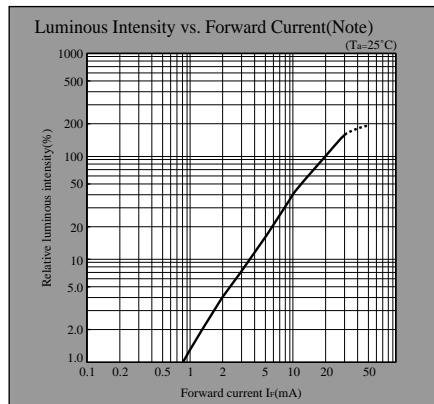
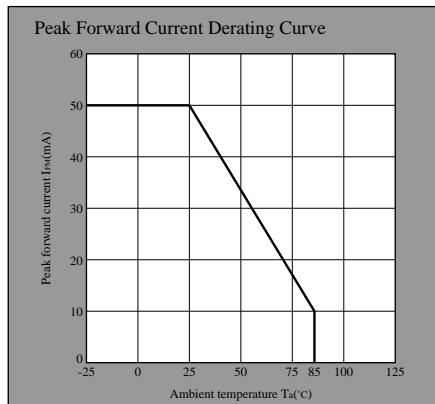
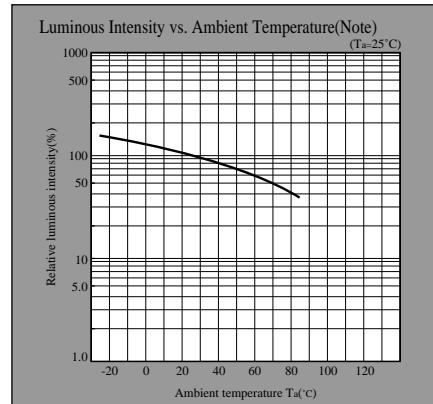
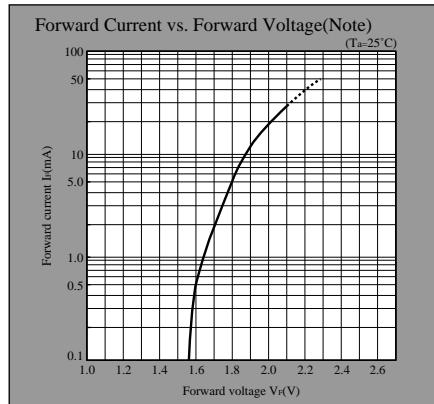
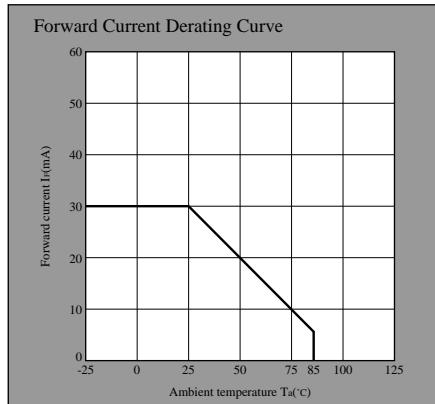
# LED Lamp Characteristics Diagrams

## PR series



Note)Characteristics shown in diagrams are typical values. (not assurance value)

## HD series

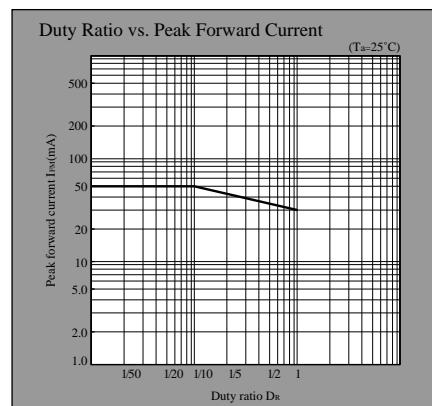
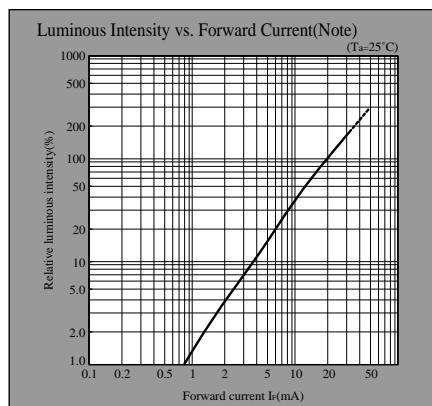
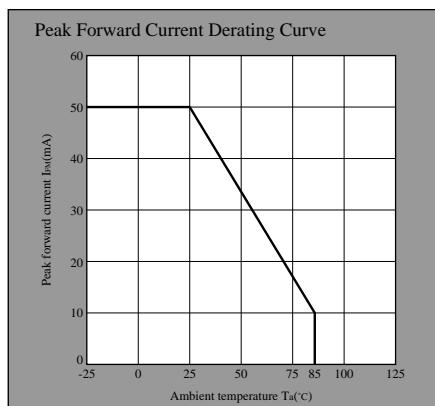
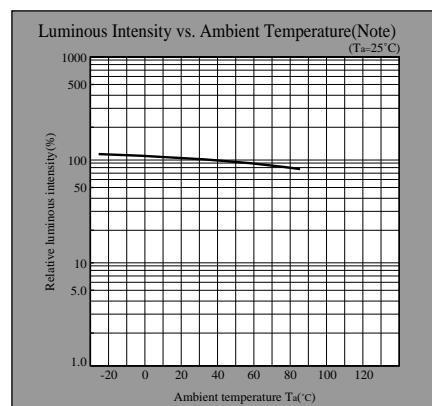
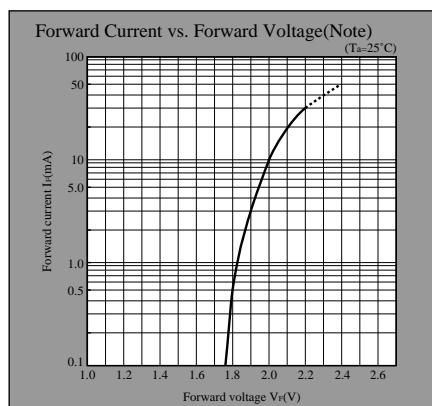
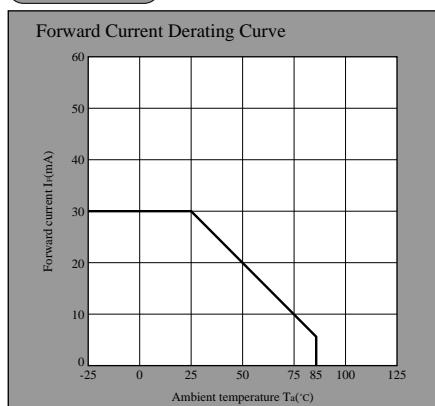


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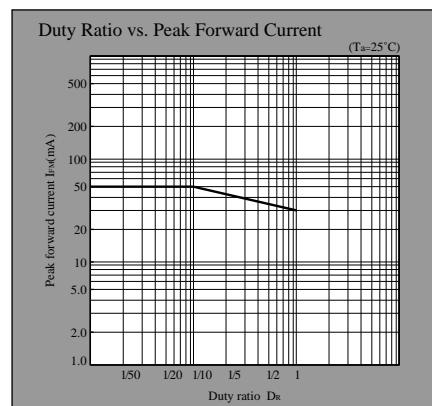
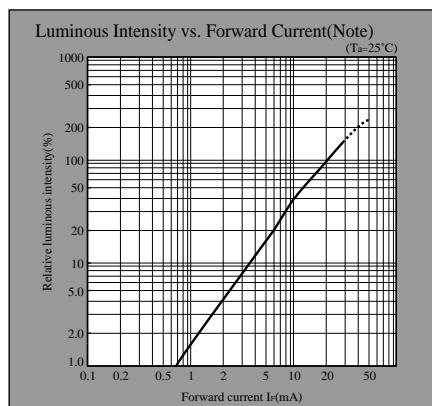
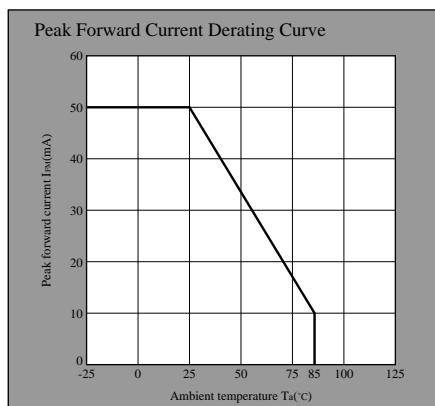
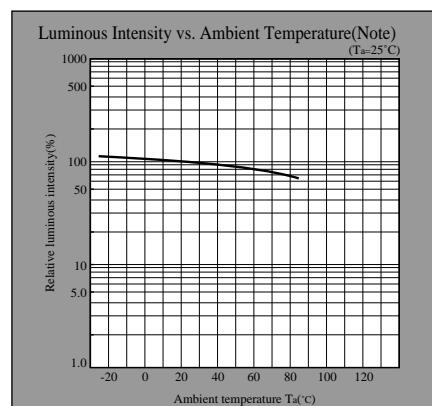
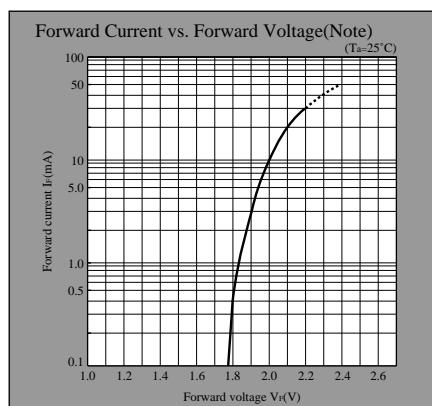
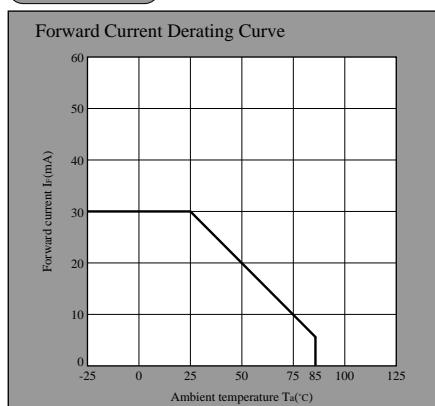
# LED Lamp Characteristics Diagrams

## EG series



Note) Characteristics shown in diagrams are typical values. (not assurance value)

## KG series



Note) Characteristics shown in diagrams are typical values. (not assurance value)

### (Notice)

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