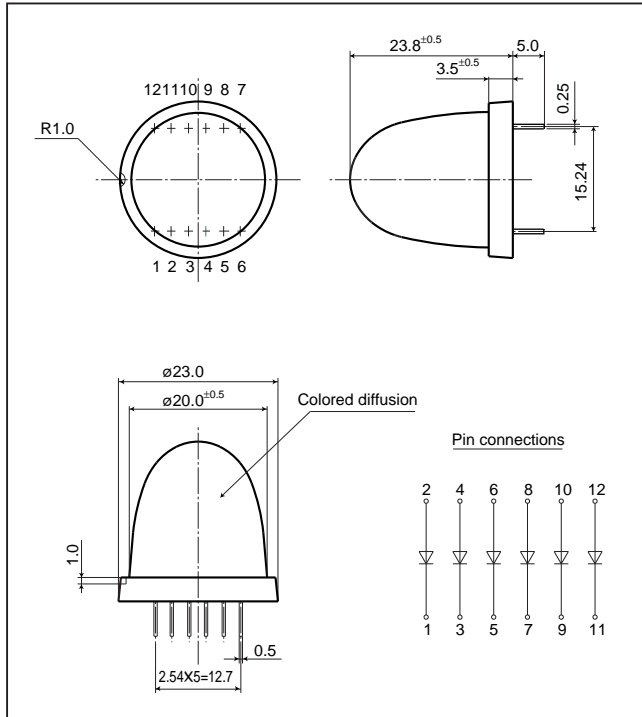


## LT9526□ series

ø20mm, Dome Type, Colored Diffusion, High-luminosity, 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<br>P <sup>*1</sup><br>(mW) | Forward current<br>I <sub>F</sub> <sup>*2</sup><br>(mA) | Peak forward current<br>I <sub>FM</sub> <sup>*2*3</sup><br>(mA) | Derating factor<br>(mA/°C) <sup>*2</sup> |       | Reverse voltage<br>V <sub>R</sub> <sup>*2</sup><br>(V) | Operating temperature<br>T <sub>opr</sub><br>(°C) | Storage temperature<br>T <sub>stg</sub><br>(°C) | Soldering temperature<br>T <sub>sol</sub> <sup>*4</sup><br>(°C) |
|-----------|-----------------|--------------------|--|---|---|--|-------|--|---|---|---|
|           |                 |                    |  |   |   | DC                                       | Pulse |  |   |   |   |
| LT9526D   | Red             | GaAsP on GaP       | 1 010  | 60  | 100   | 1.09                                     | 1.82  | 5  | -25 to +70  | -30 to +80                                      | 260   |
| LT9526H   | Yellow          | GaAsP on GaP       | 1 010  | 60  | 100   | 1.09                                     | 1.82  | 5  | -25 to +70  | -30 to +80                                      | 260   |
| LT9526E   | Yellow-green    | GaP                | 1 010  | 60  | 100   | 1.09                                     | 1.82  | 5  | -25 to +70  | -30 to +80                                      | 260   |

\*1 Per chip

\*2 Per lamp(6 chips/lamp)

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

\*4 5s(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)

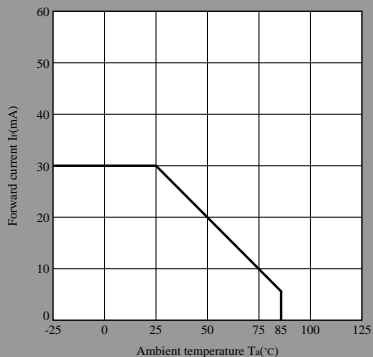
| Lens type         | Model No. | Forward voltage<br>V <sub>F</sub> (V) |     | Peak emission wavelength   |                        | Luminous intensity          |                        | Spectrum radiation bandwidth |                        | Reverse current            |                       | Terminal capacitance       |       | Page for characteristics diagrams |
|-------------------|-----------|---------------------------------------|-----|----------------------------|------------------------|-----------------------------|------------------------|------------------------------|------------------------|----------------------------|-----------------------|----------------------------|-------|-----------------------------------|
|                   |           | TYP                                   | MAX | λ <sub>p</sub> (nm)<br>TYP | I <sub>F</sub><br>(mA) | I <sub>v</sub> (mcd)<br>TYP | I <sub>F</sub><br>(mA) | Δλ(nm)<br>TYP                | I <sub>F</sub><br>(mA) | I <sub>R</sub> (μA)<br>MAX | V <sub>R</sub><br>(V) | C <sub>t</sub> (pF)<br>TYP | (MHz) |                                   |
|                   |           |                                       |     |                            |                        |                             |                        |                              |                        |                            |                       |                            |       |                                   |
| Colored diffusion | LT9526D   | 2.0                                   | 2.8 | 635                        | 40                     | 250                         | 40                     | 35                           | 40                     | 10                         | 4                     | 30                         | 1     | →                                 |
|                   | LT9526H   | 2.0                                   | 2.8 | 585                        | 40                     | 250                         | 40                     | 35                           | 40                     | 10                         | 4                     | 30                         | 1     | →                                 |
|                   | LT9526E   | 2.2                                   | 2.8 | 565                        | 40                     | 250                         | 40                     | 30                           | 40                     | 10                         | 4                     | 30                         | 1     | →                                 |

\*5 Per chip

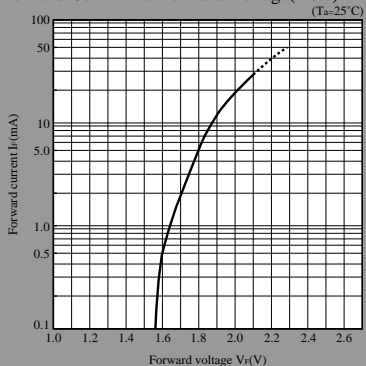
\*6 Luminous intensity per lamp at I<sub>F</sub>=40mA/chip(6 chips/lamp)

# HD series

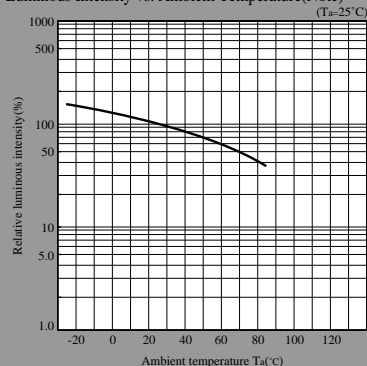
## Forward Current Derating Curve



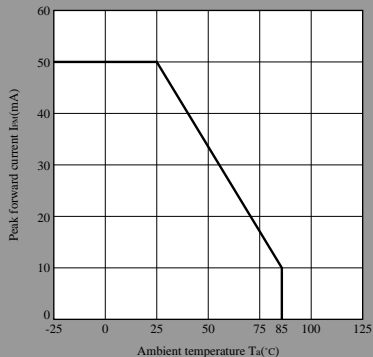
## Forward Current vs. Forward Voltage(Note)



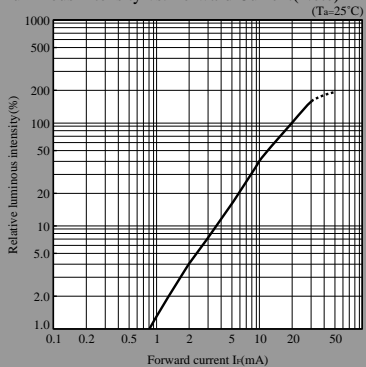
## Luminous Intensity vs. Ambient Temperature(Note)



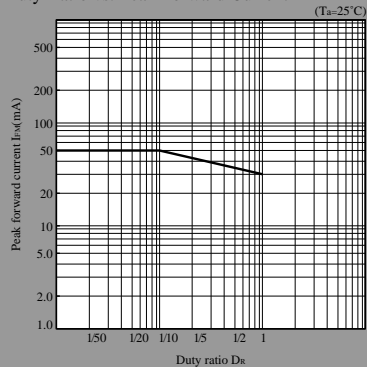
## Peak Forward Current Derating Curve



## Luminous Intensity vs. Forward Current(Note)



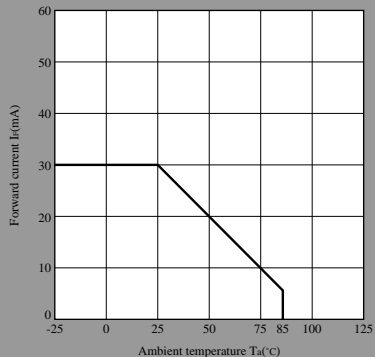
## Duty Ratio vs. Peak Forward Current



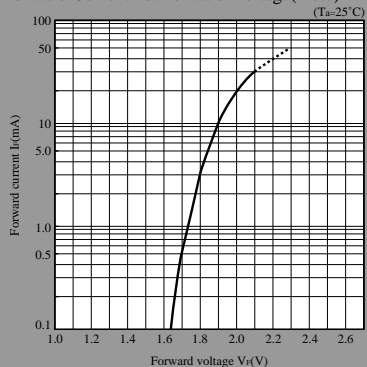
Note) Characteristics shown in diagrams are typical values. (not assurance value)

# HY series

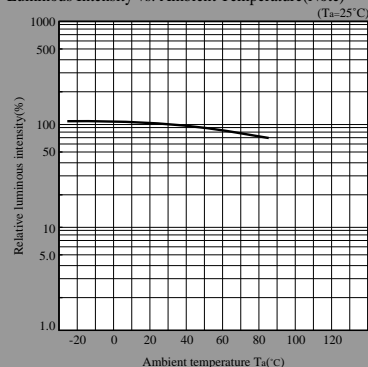
### Forward Current Derating Curve



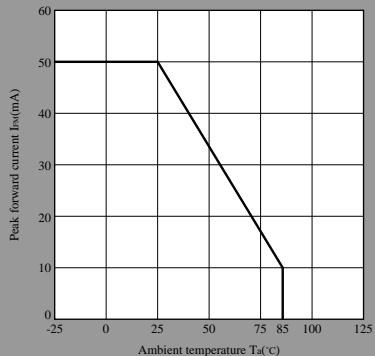
### Forward Current vs. Forward Voltage(Note)



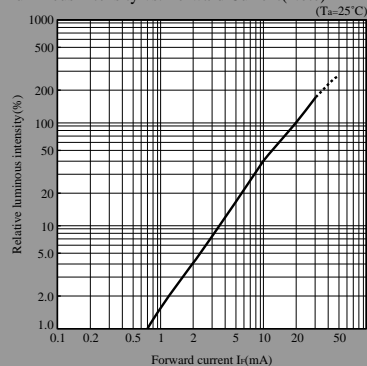
### Luminous Intensity vs. Ambient Temperature(Note)



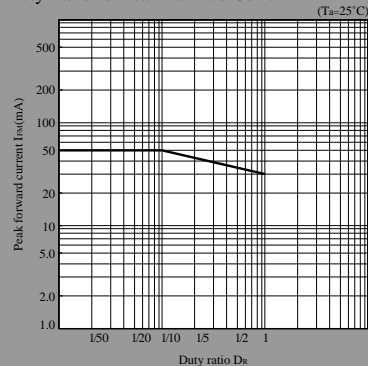
### Peak Forward Current Derating Curve



### Luminous Intensity vs. Forward Current(Note)

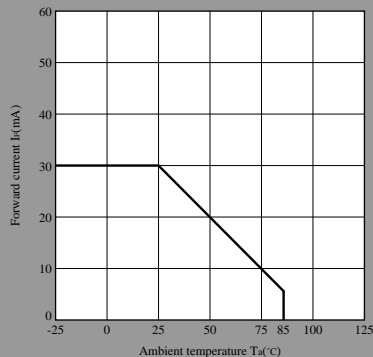


### Duty Ratio vs. Peak Forward Current

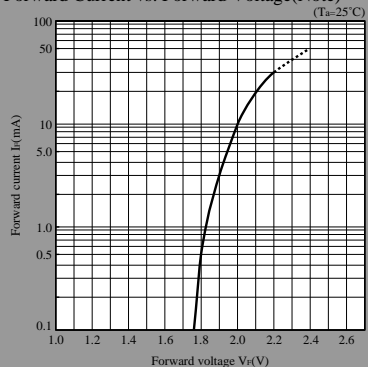


Note) Characteristics shown in diagrams are typical values. (not assurance value)

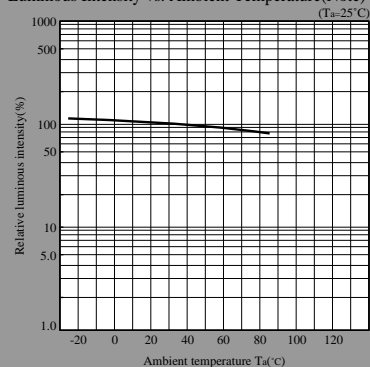
Forward Current Derating Curve



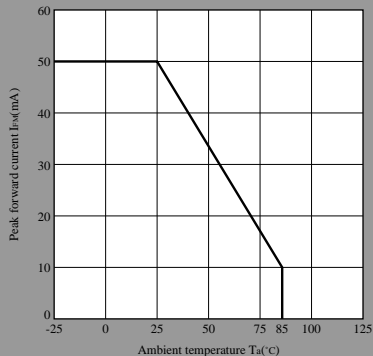
Forward Current vs. Forward Voltage(Note)



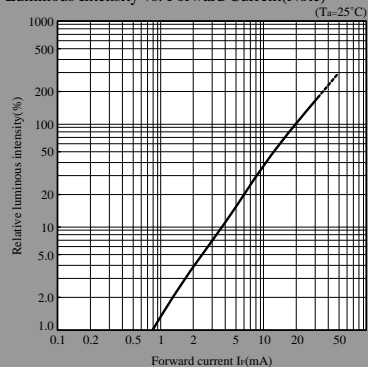
Luminous Intensity vs. Ambient Temperature(Note)



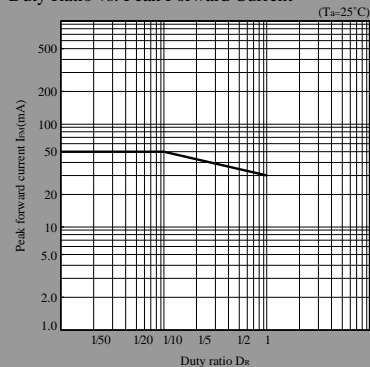
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



Duty Ratio vs. Peak Forward Current



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