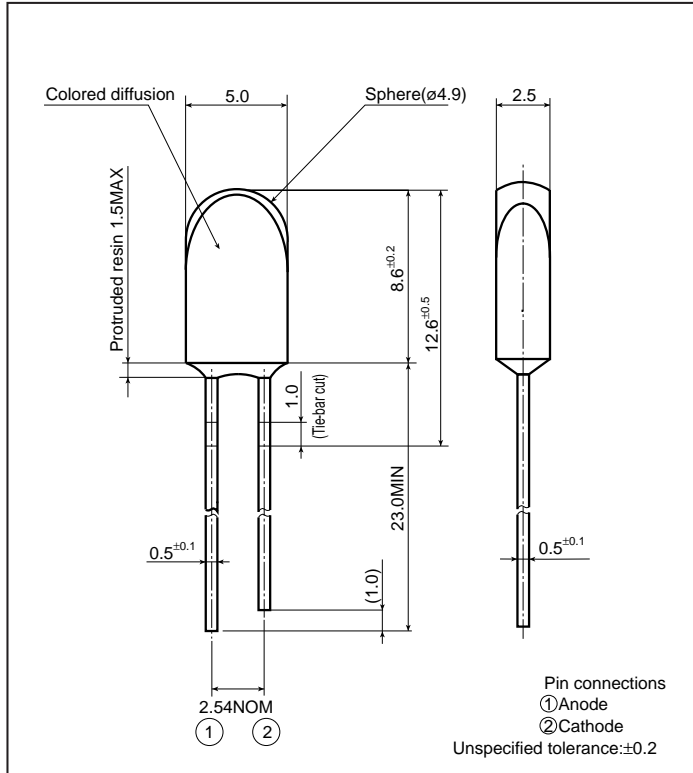


GL8□□2 series

2.5×5.0mm, Arch Type, Colored Diffusion LED Lams for Indicator

■ Outline Dimensions

(Unit : mm)



■ Absolute Maximum Ratings

(T_a=25°C)

| Model No. | Radiation color | Radiation material | Power dissipation P (mW) | Forward current I _F (mA) | Peak forward current I _{FM} ^{*1} (mA) | Derating factor (mA/°C) | | Reverse voltage V _R (V) | Operating temperature T _{opr} (°C) | Storage temperature T _{stg} (°C) | Soldering temperature T _{sol} ^{*2} (°C) |
|-----------|-----------------|--------------------|--------------------------------|---|---|----------------------------|-------|--|---|---|---|
| | | | | | | DC | Pulse | | | | |
| GL8PR2 | Red | GaP | 23 | 10 | 50 | 0.13 | 0.67 | 5 | -25 to +85 | -25 to +100 | 260 |
| GL8HD2 | Red | GaAsP on GaP | 84 | 30 | 50 | 0.40 | 0.67 | 5 | -25 to +85 | -25 to +100 | 260 |
| GL8HS2 | Sunset orange | GaAsP on GaP | 84 | 30 | 50 | 0.40 | 0.67 | 5 | -25 to +85 | -25 to +100 | 260 |
| GL8HY2 | Yellow | GaAsP on GaP | 50 | 20 | 50 | 0.27 | 0.67 | 5 | -25 to +85 | -25 to +100 | 260 |
| GL8EG2 | Yellow-green | GaP | 84 | 30 | 50 | 0.40 | 0.67 | 5 | -25 to +85 | -25 to +100 | 260 |
| GL8KG2 | Green | GaP | 84 | 30 | 50 | 0.40 | 0.67 | 5 | -25 to +85 | -25 to +100 | 260 |

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

*2 5s or less (At the position of 1.6mm or more from the bottom face of resin package)

■ Electro-optical Characteristics

(T_a=25°C)

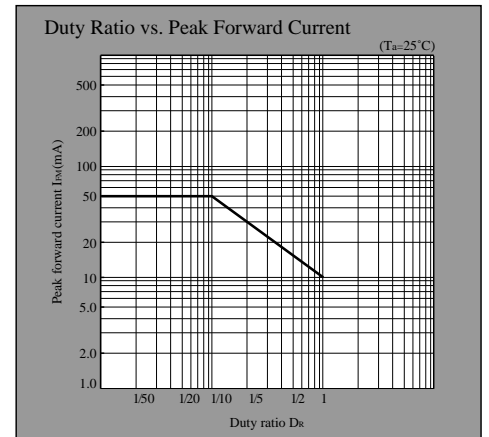
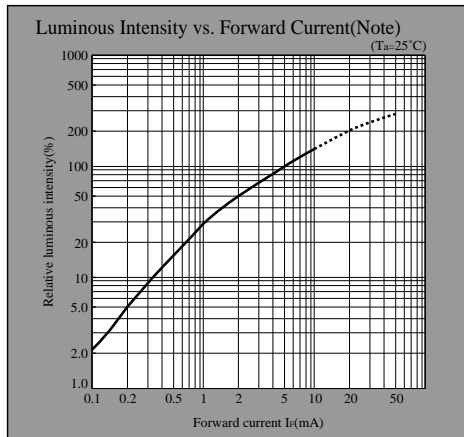
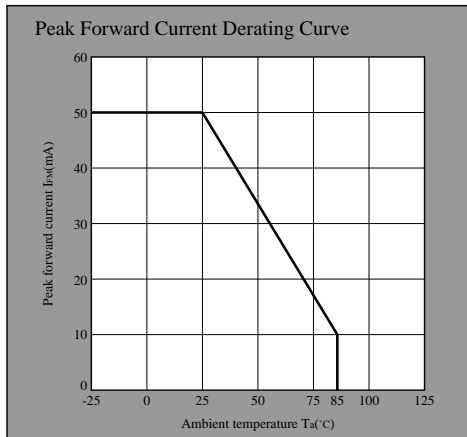
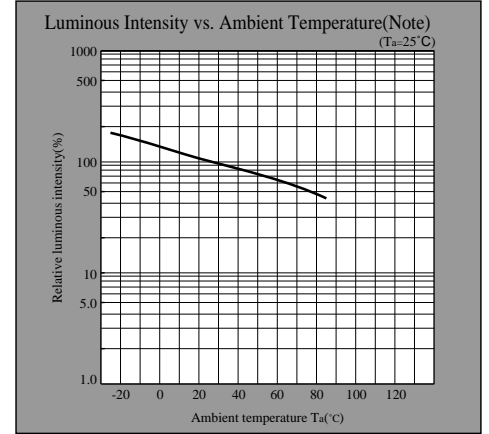
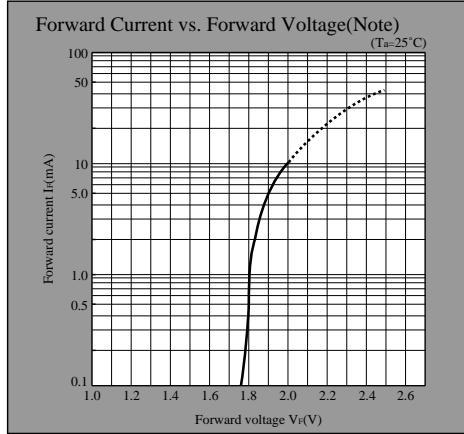
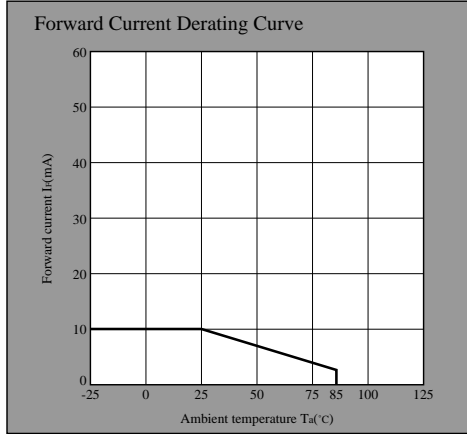
| Lens type | Model No. | Forward voltage V _F (V) | | Peak emission wavelength | | Luminous intensity | | Spectrum radiation bandwidth | | Reverse current | | Terminal capacitance | | Page for characteristics diagrams |
|-------------------|-----------|---------------------------------------|-----|----------------------------|------------------------|-----------------------------|------------------------|------------------------------|------------------------|----------------------------|-----------------------|----------------------------|-------|-----------------------------------|
| | | TYP | MAX | λ _p (nm) TYP | I _F (mA) | I _v (mcd) TYP | I _F (mA) | Δλ(nm) TYP | I _F (mA) | I _R (μA) MAX | V _R (V) | C _t (pF) TYP | (MHz) | |
| | | | | | | | | | | | | | | |
| Colored diffusion | GL8PR2 | 1.9 | 2.3 | 695 | 5 | 4 | 5 | 100 | 5 | 10 | 4 | 55 | 1 | → |
| | GL8HD2 | 2.0 | 2.8 | 635 | 20 | 30 | 20 | 35 | 20 | 10 | 4 | 20 | 1 | → |
| | GL8HS2 | 2.0 | 2.8 | 610 | 20 | 30 | 20 | 35 | 20 | 10 | 4 | 15 | 1 | → |
| | GL8HY2 | 1.9 | 2.5 | 585 | 10 | 30 | 10 | 30 | 20 | 10 | 4 | 35 | 1 | → |
| | GL8EG2 | 2.1 | 2.8 | 565 | 20 | 30 | 20 | 30 | 20 | 10 | 4 | 35 | 1 | → |
| | GL8KG2 | 2.1 | 2.8 | 555 | 20 | 12 | 20 | 25 | 20 | 10 | 4 | 40 | 1 | → |

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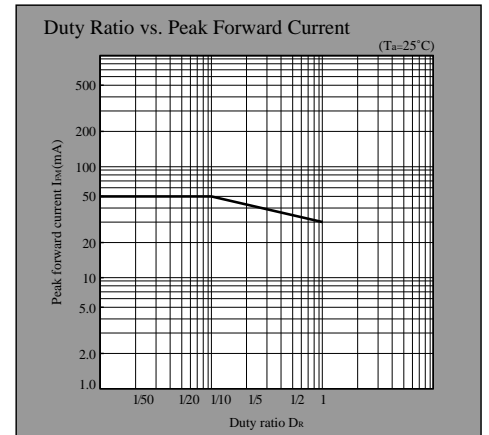
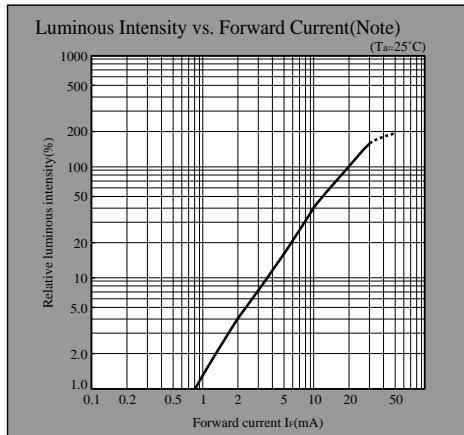
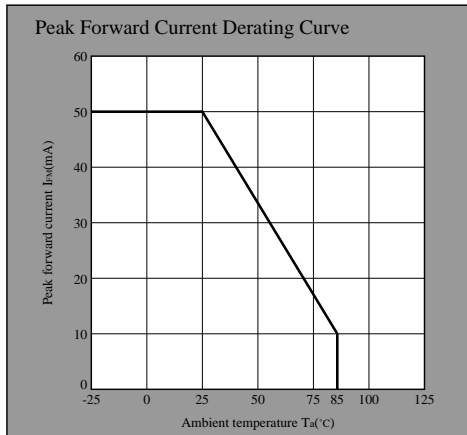
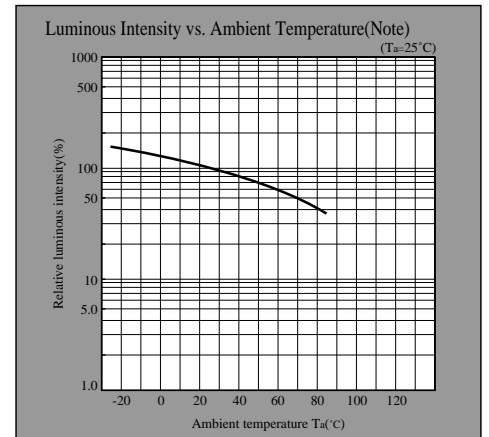
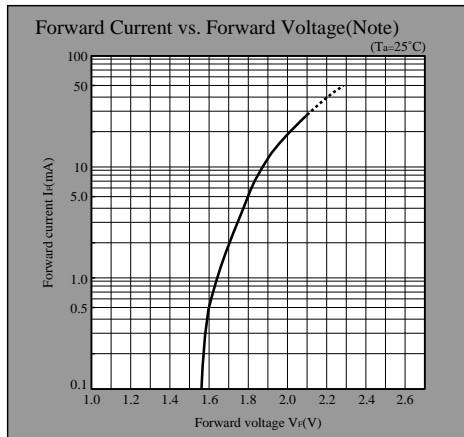
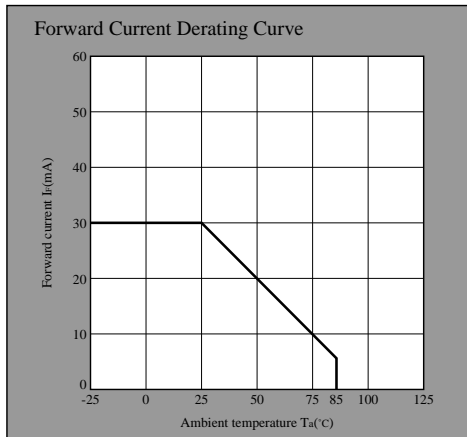
(Internet) • Data for sharp's optoelectronic/power device is provided for internet. (Address <http://www.sharp.co.jp/ecg/>)

LED Lamp Characteristics Diagrams

PR series



HD series



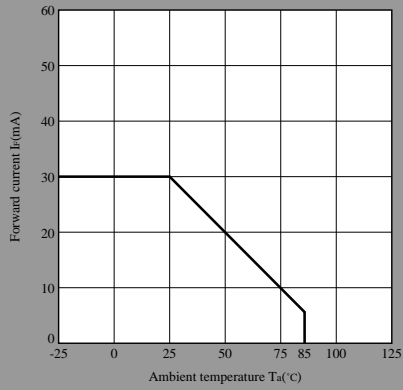
Note) Characteristics shown in diagrams are typical values. (not assurance value)

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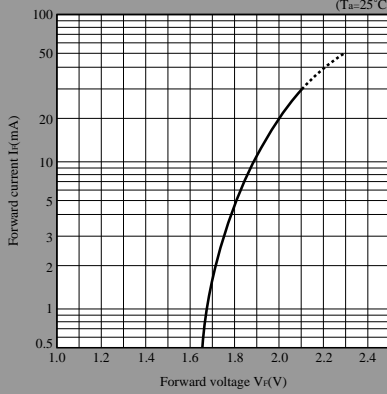
LED Lamp Characteristics Diagrams

HS series

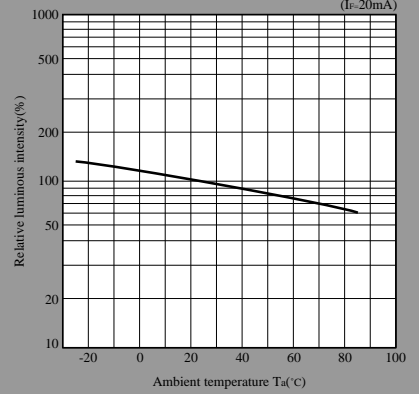
Forward Current Derating Curve



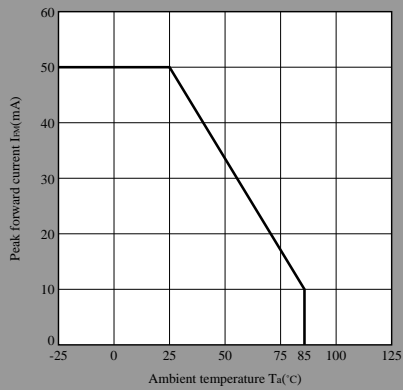
Forward Current vs. Forward Voltage(Note)



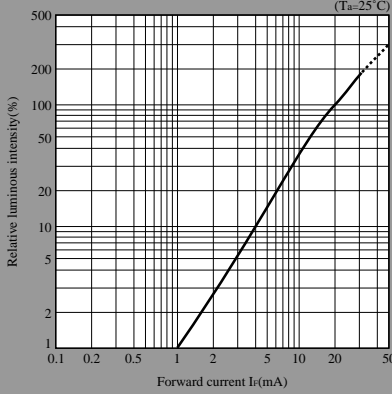
Luminous Intensity vs. Ambient Temperature(Note)



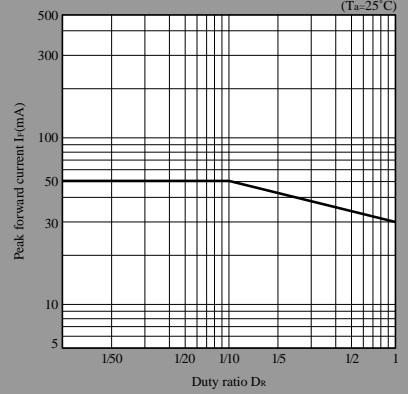
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)

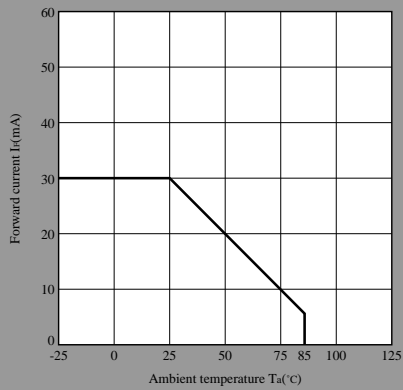


Duty Ratio vs. Peak Forward Current

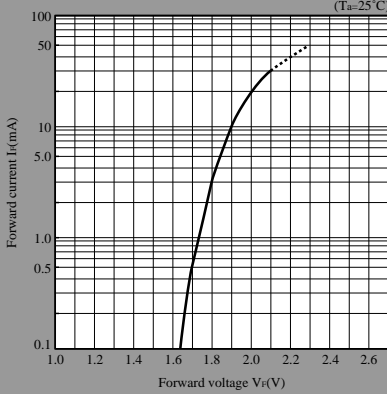


HY series

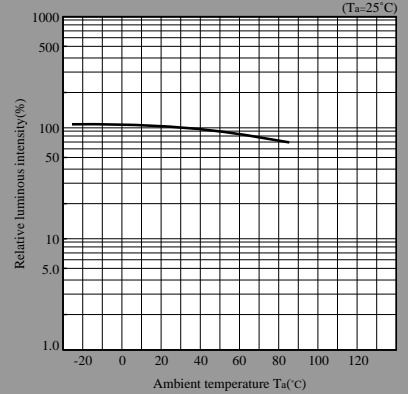
Forward Current Derating Curve



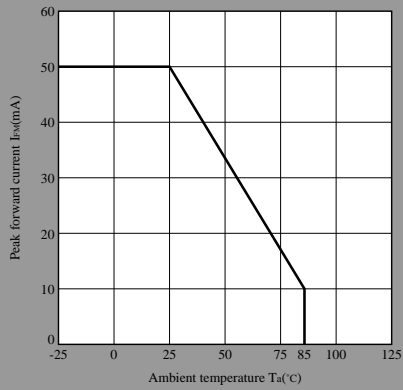
Forward Current vs. Forward Voltage(Note)



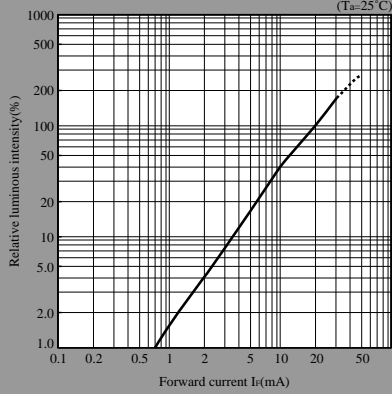
Luminous Intensity vs. Ambient Temperature(Note)



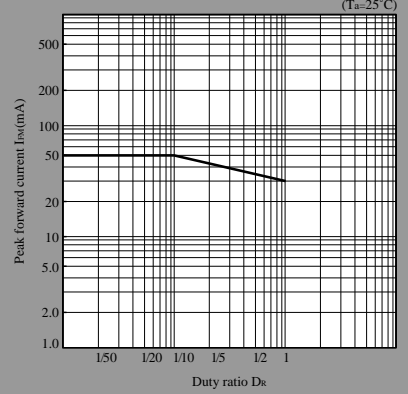
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



Duty Ratio vs. Peak Forward Current

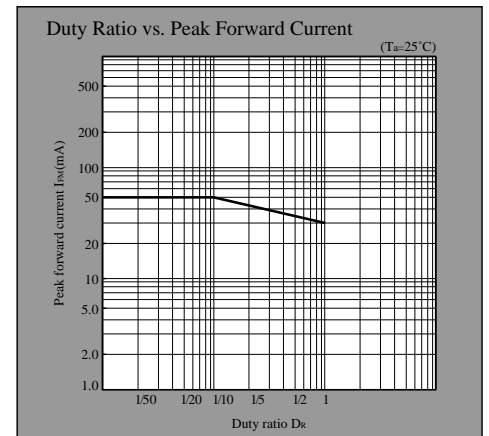
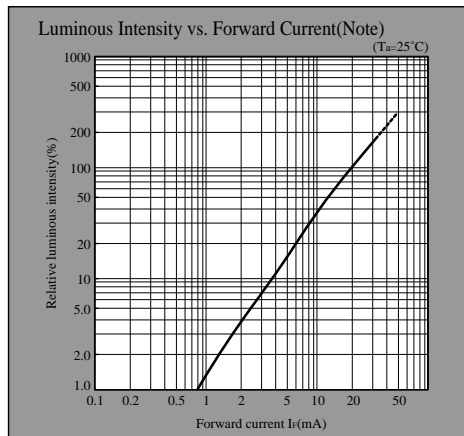
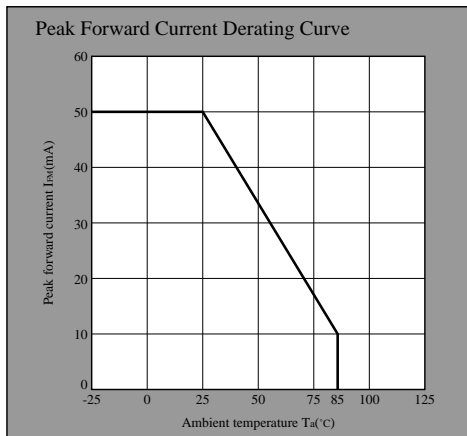
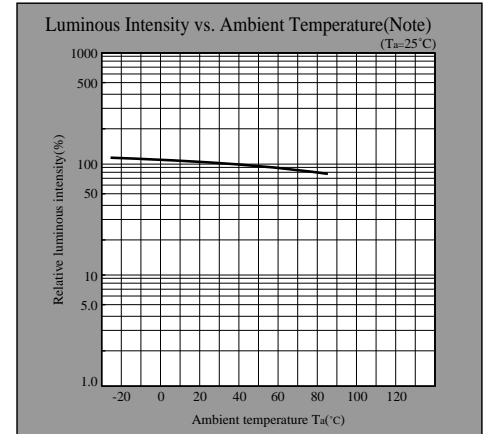
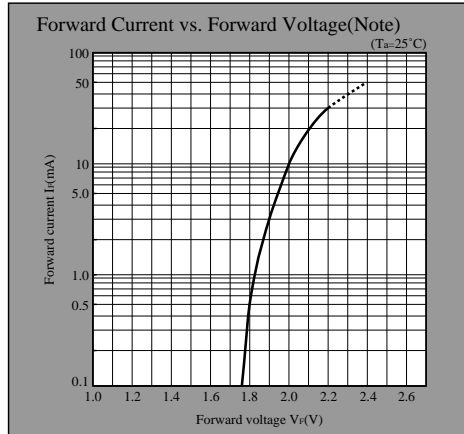
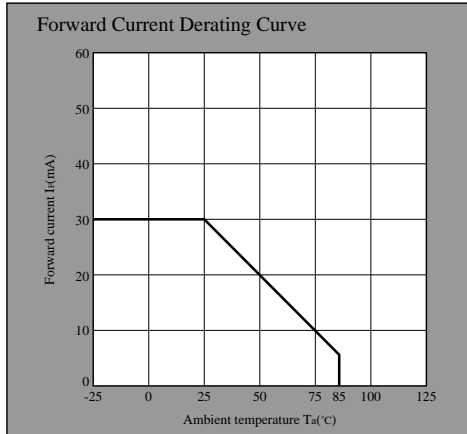


Note) Characteristics shown in diagrams are typical values. (not assurance value)

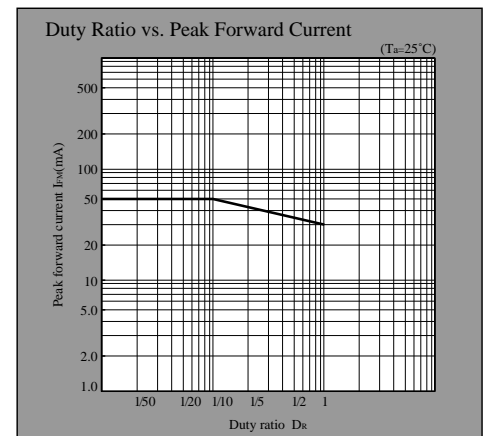
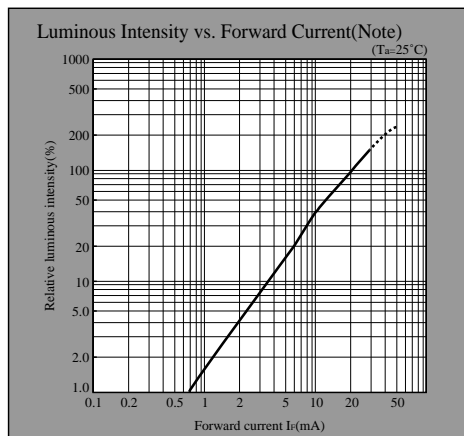
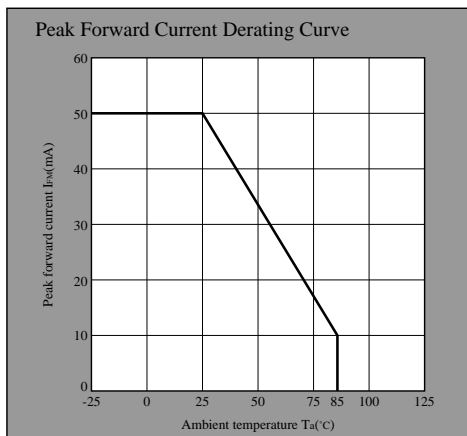
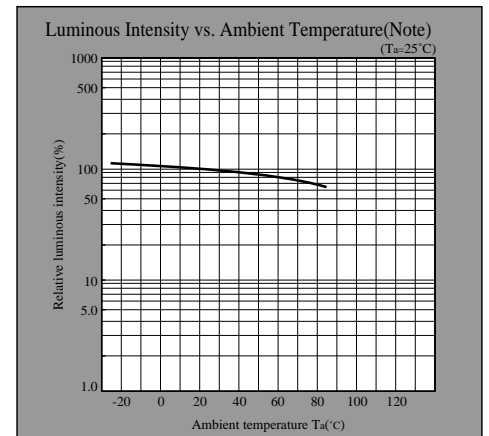
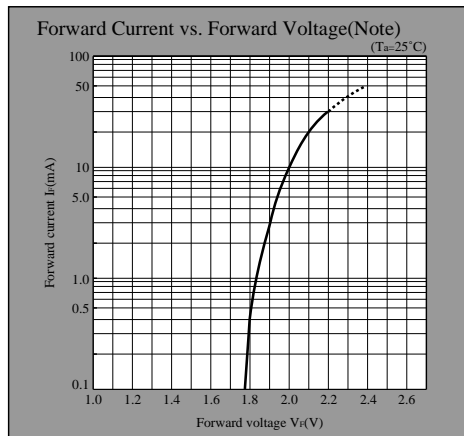
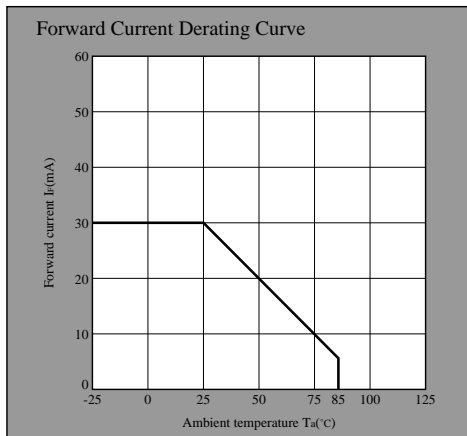
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LED Lamp Characteristics Diagrams

EG series



KG series



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