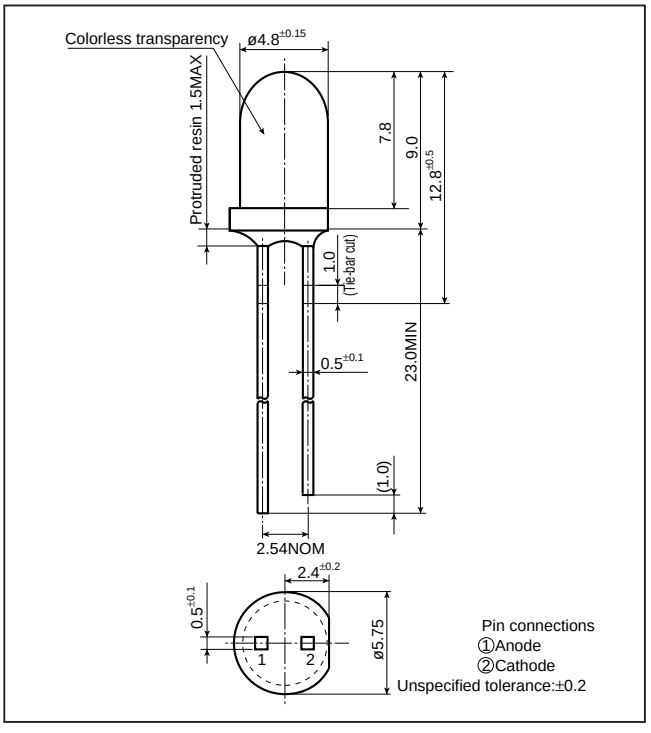
# GL5❑❑43 series

## ø5mm(T-1 3/4), Cylinder Type, Colorless Transparency LED Lamps for Indicator

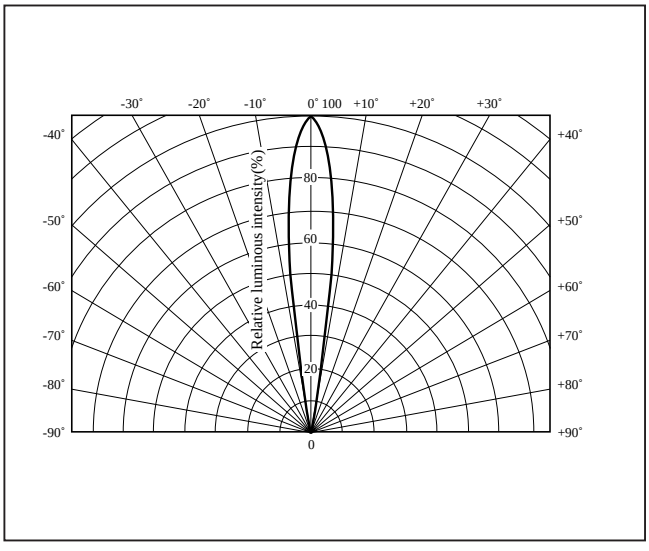
### ■ Outline Dimensions

(Unit : mm)




### ■ Radiation Diagram

(Ta=25˚C)




### ■ Absolute Maximum Ratings

(Ta=25˚C)

| Model No. | Radiation color | Radiation material | Power dissipation P (mW) | Forward current IF (mA) | Peak forward current IFM*1 (mA) | Derating factor (mA/˚C) | | Reverse voltage VR (V) | Operating temperature Topr (˚C) | Storage temperature Tstg (˚C) | Soldering temperature Tsol*2 (˚C) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | DC | Pulse | | | | |
| GL5PR43 | Red | GaP | 23 | 10 | 50 | 0.13 | 0.67 | 5 | -25 to +85 | -25 to +100 | 260 |
| GL5HD43 | Red | GaAsP on GAP | 84 | 30 | 50 | 0.40 | 0.67 | 5 | -25 to +85 | -25 to +100 | 260 |
| GL5HS43 | Sunset orange | GaAsP on GAP | 84 | 30 | 50 | 0.40 | 0.67 | 5 | -25 to +85 | -25 to +100 | 260 |
| GL5HY43 | Yellow | GaAsP on GAP | 84 | 30 | 50 | 0.40 | 0.67 | 5 | -25 to +85 | -25 to +100 | 260 |
| GL5EG43 | Yellow-green | GaP | 84 | 30 | 50 | 0.40 | 0.67 | 5 | -25 to +85 | -25 to +100 | 260 |
| GL5KG43 | 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

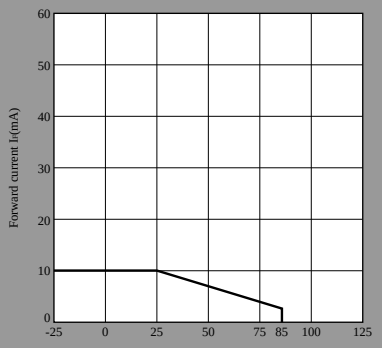
(Ta=25˚C)

| Lens type | Model No. | Forward voltage VF(V) | | Peak emission wavelength λp(nm) | IF (mA) | Luminous intensity IV(mcd) | IF (mA) | Spectrum radiation bandwidth Δλ(nm) | IF (mA) | Reverse current IR(μA) | VR (V) | Terminal capacitance Ct(pF) | (MHz) | Page for characteristics diagrams |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TYP | MAX | TYP | | TYP | | TYP | | MAX | | TYP | | |
| Colorless transparency | GL5PR43 | 1.9 | 2.3 | 695 | 5 | 40 | 5 | 100 | 5 | 10 | 4 | 55 | 1 | → |
| | GL5HD43 | 2.0 | 2.8 | 635 | 20 | 300 | 20 | 35 | 20 | 10 | 4 | 20 | 1 | → |
| | GL5HS43 | 2.0 | 2.8 | 610 | 20 | 250 | 20 | 35 | 20 | 10 | 4 | 15 | 1 | → |
| | GL5HY43 | 2.0 | 2.8 | 585 | 20 | 250 | 20 | 30 | 20 | 10 | 4 | 35 | 1 | → |
| | GL5EG43 | 2.1 | 2.8 | 565 | 20 | 300 | 20 | 30 | 20 | 10 | 4 | 35 | 1 | → |
| | GL5KG43 | 2.1 | 2.8 | 555 | 20 | 120 | 20 | 30 | 20 | 10 | 4 | 35 | 1 | → |

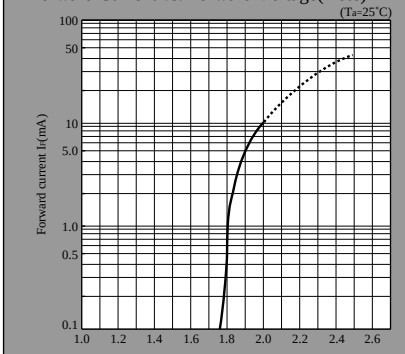
# LED Lamp Characteristics Diagrams

## PR series

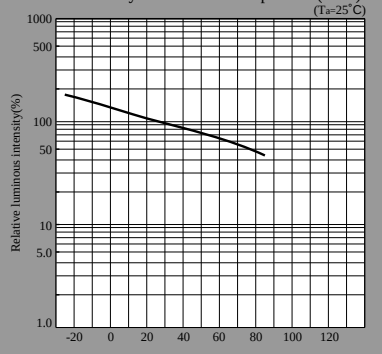
Forward Current Derating Curve



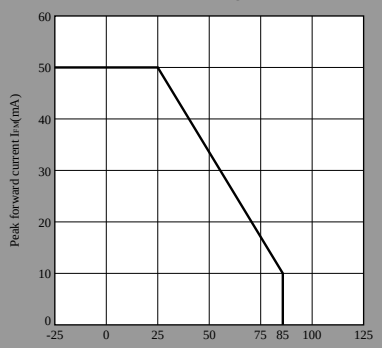

Forward Current vs. Forward Voltage(Note)



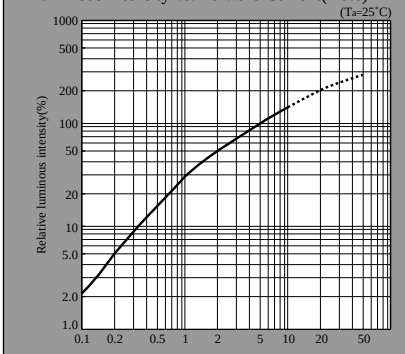

Luminous Intensity vs. Ambient Temperature(Note)



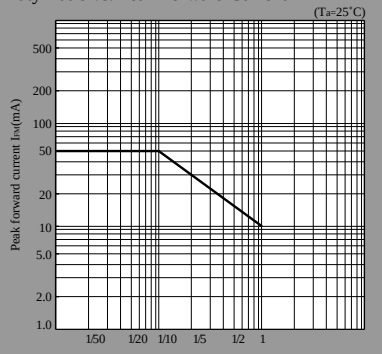

Peak Forward Current Derating Curve




Luminous Intensity vs. Forward Current(Note)

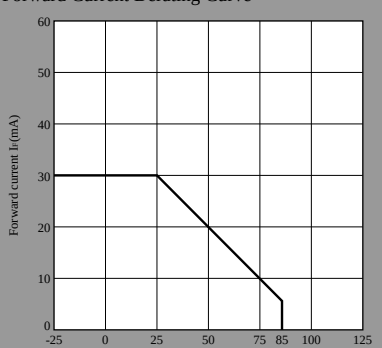



Duty Ratio vs. Peak Forward Current

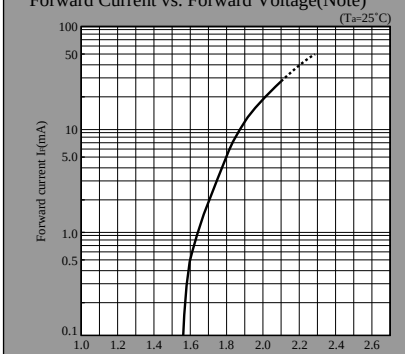



## HD series

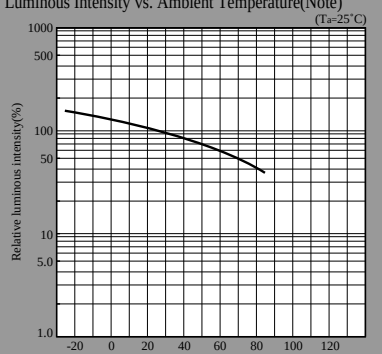
Forward Current Derating Curve



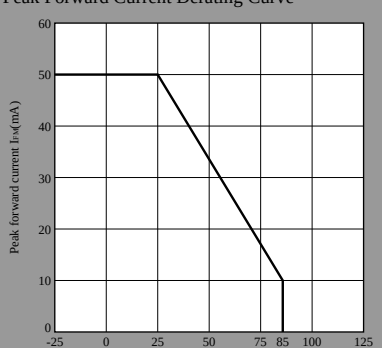

Forward Current vs. Forward Voltage(Note)



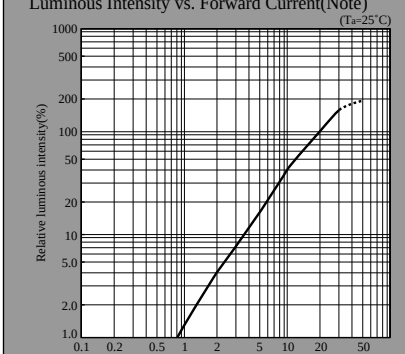

Luminous Intensity vs. Ambient Temperature(Note)



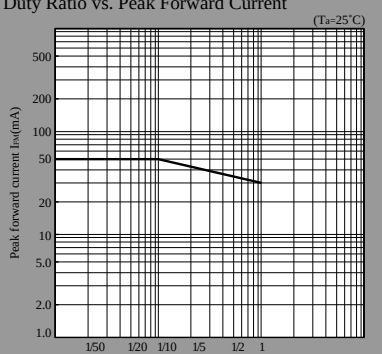

Peak Forward Current Derating Curve




Luminous Intensity vs. Forward Current(Note)




Duty Ratio vs. Peak Forward Current

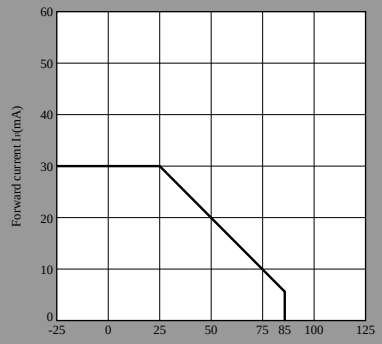



Note)Characteristics shown in diagrams are typical values. (not assurance value)

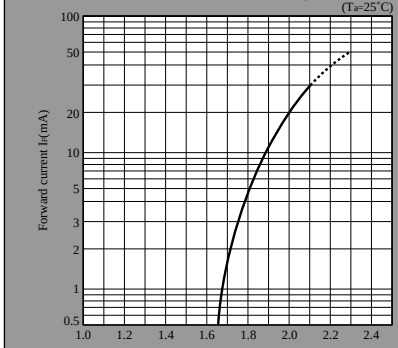
# LED Lamp Characteristics Diagrams

## HS series

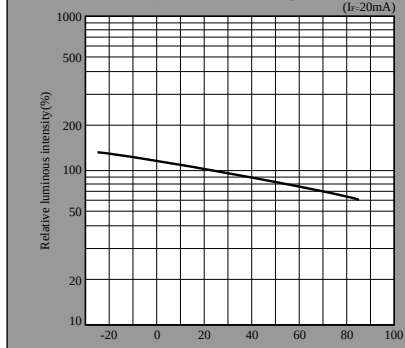
Forward Current Derating Curve



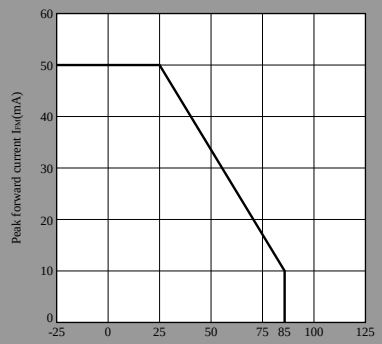

Forward Current vs. Forward Voltage(Note)



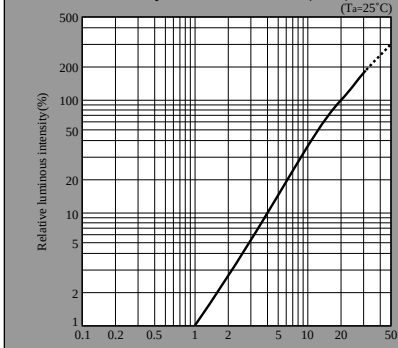

Luminous Intensity vs. Ambient Temperature(Note)



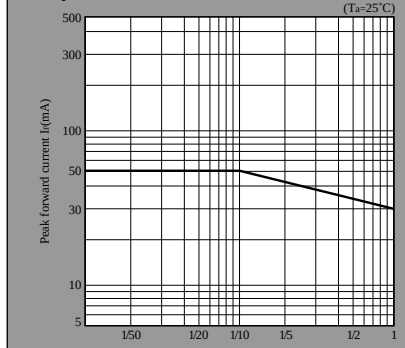

Peak Forward Current Derating Curve




Luminous Intensity vs. Forward Current(Note)

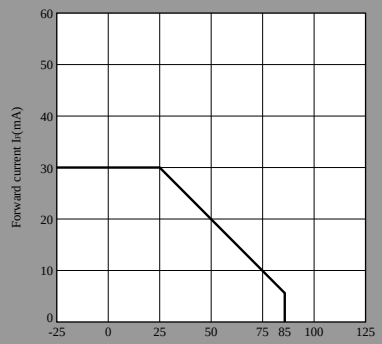



Duty Ratio vs. Peak Forward Current

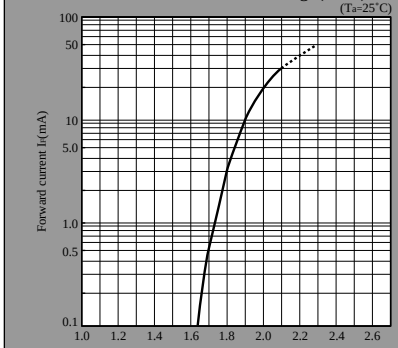



## HY series

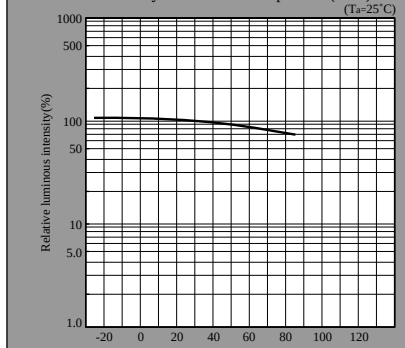
Forward Current Derating Curve



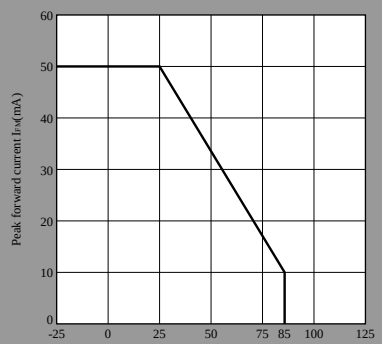

Forward Current vs. Forward Voltage(Note)



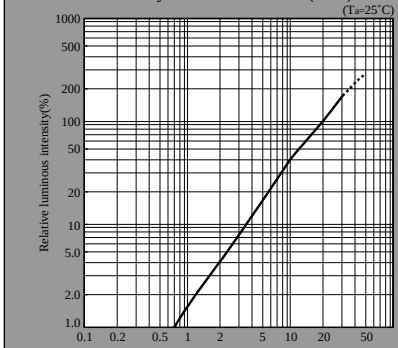

Luminous Intensity vs. Ambient Temperature(Note)



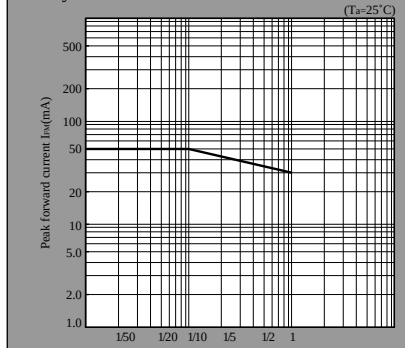

Peak Forward Current Derating Curve




Luminous Intensity vs. Forward Current(Note)




Duty Ratio vs. Peak Forward Current

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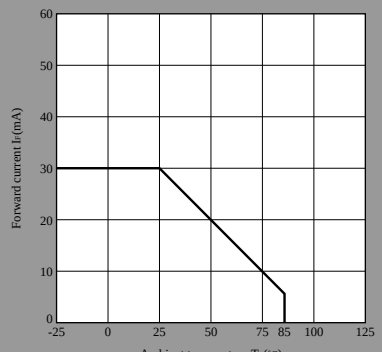
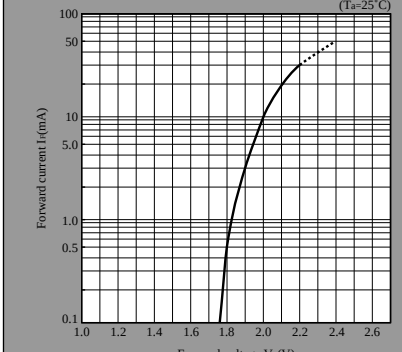
# LED Lamp Characteristics Diagrams

## EG series

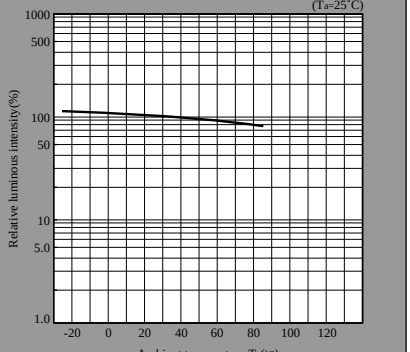
Forward Current Derating Curve



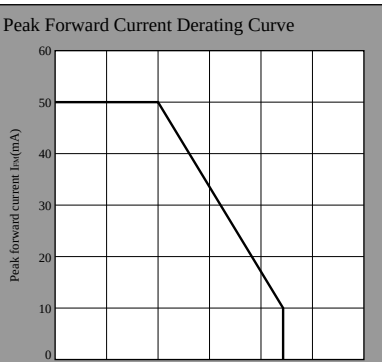

Forward Current vs. Forward Voltage(Note)



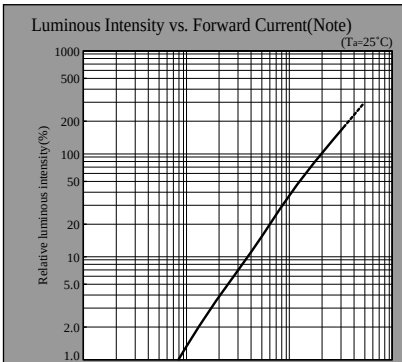

Luminous Intensity vs. Ambient Temperature(Note)



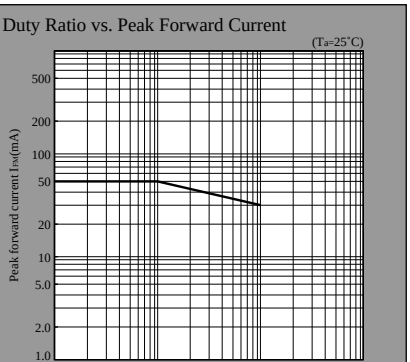

Peak Forward Current Derating Curve




Luminous Intensity vs. Forward Current(Note)

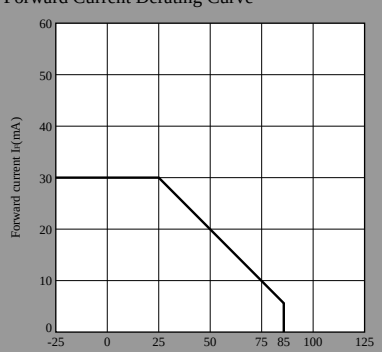



Duty Ratio vs. Peak Forward Current

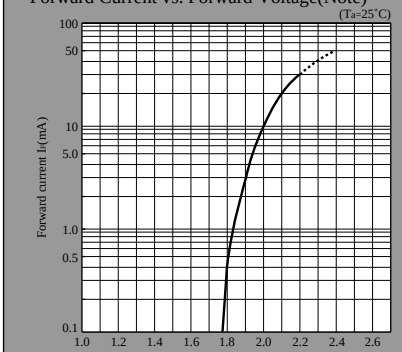



## KG series

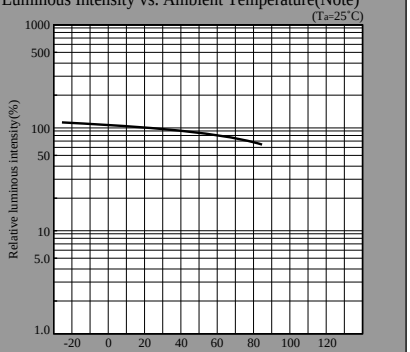
Forward Current Derating Curve



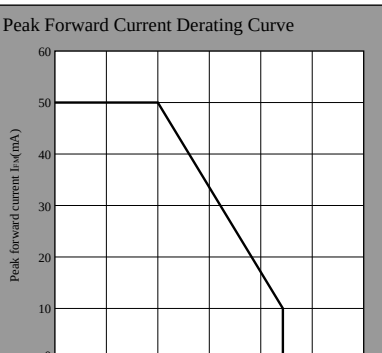

Forward Current vs. Forward Voltage(Note)



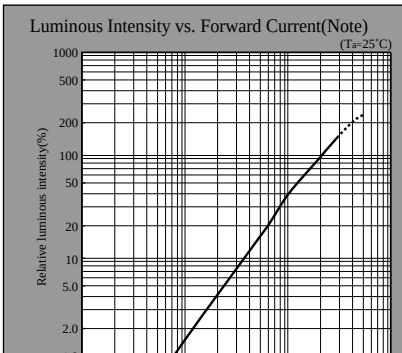

Luminous Intensity vs. Ambient Temperature(Note)



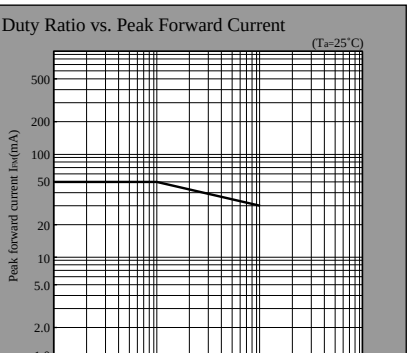

Peak Forward Current Derating Curve




Luminous Intensity vs. Forward Current(Note)




Duty Ratio vs. Peak Forward Current




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