

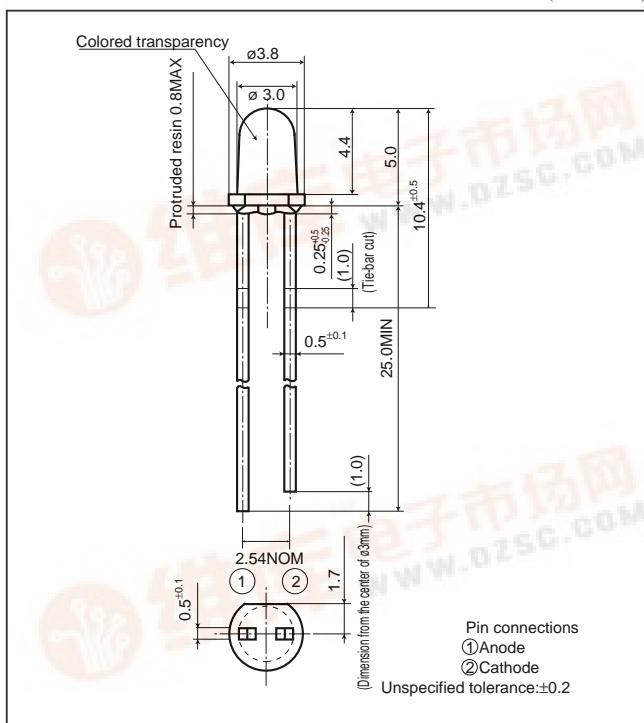
## LED Lamp

GL3□□41 series

## GL3□□41 series

## ■ Outline Dimensions

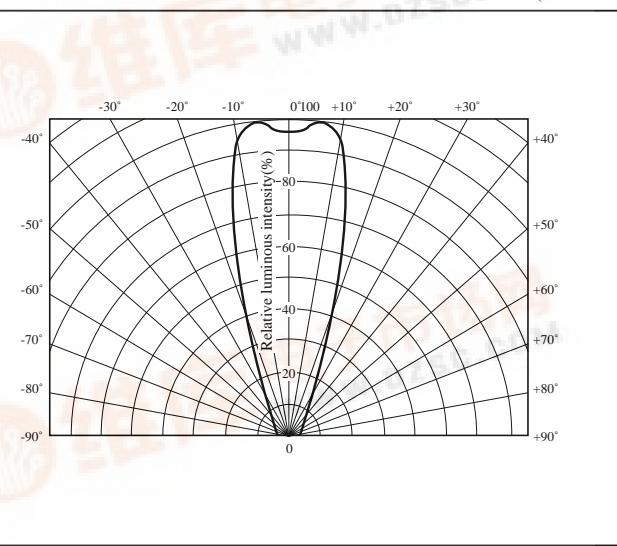
(Unit : mm)



ø3mm(T-1), Cylinder Type,  
Colored Transparency LED  
Lamps for Backlight/Indicator

## ■ 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 <sup>*1</sup> (mA)	Derating factor (mA/°C)		Reverse voltage V <sub>R</sub> (V)	Operating temperature T <sub>opr</sub> (°C)	Storage temperature T <sub>stg</sub> (°C)	Soldering temperature T <sub>sol</sub> <sup>*2</sup> (°C)
						DC	Pulse				
GL3PR41	Red	GaP	23	10	50	0.13	0.67	5	-25 to +85	-25 to +100	260
GL3HD41	Red	GaAsP on GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL3HS41	Sunset orange	GaAsP on GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL3HY41	Yellow	GaAsP on GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL3EG41	Yellow-green	GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL3KG41	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 V <sub>F</sub> (V)		Peak emission wavelength λ <sub>p</sub> (nm)		Luminous intensity I <sub>v</sub> (mcd)		Spectrum radiation bandwidth Δλ(nm)		Reverse current I <sub>R</sub> (μA)		Terminal capacitance C(pF)		Page for characteristics diagrams
		TYP	MAX	TYP	TYP	TYP	IF (mA)	TYP	IF (mA)	TYP	MAX	V <sub>R</sub> (V)	(MHz)	
Colored transparency	GL3PR41	1.9	2.3	695	5	12	5	100	5	10	4	55	1	→
	GL3HD41	2.0	2.8	635	20	110	20	35	20	10	4	20	1	→
	GL3HS41	2.0	2.8	610	20	100	20	35	20	10	4	15	1	→
	GL3HY41	2.0	2.8	585	20	100	20	30	20	10	4	35	1	→
	GL3EG41	2.1	2.8	565	20	130	20	30	20	10	4	35	1	→
	GL3KG41	2.1	2.8	555	20	60	20	25	20	10	4	40	1	→

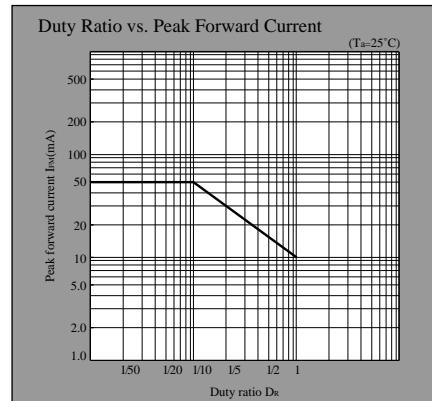
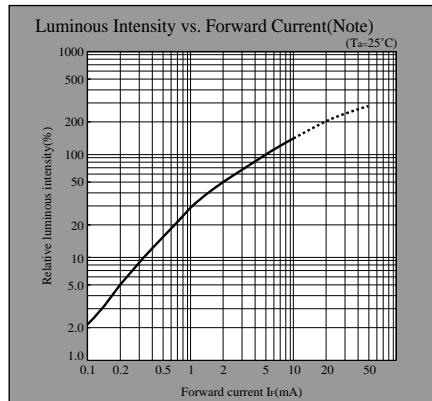
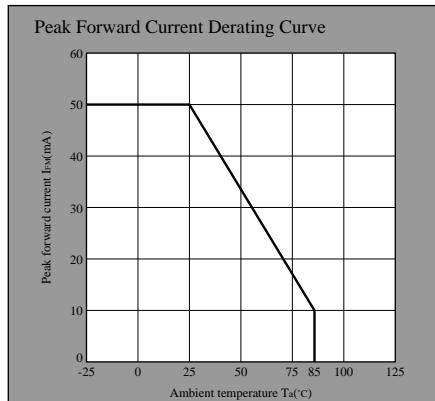
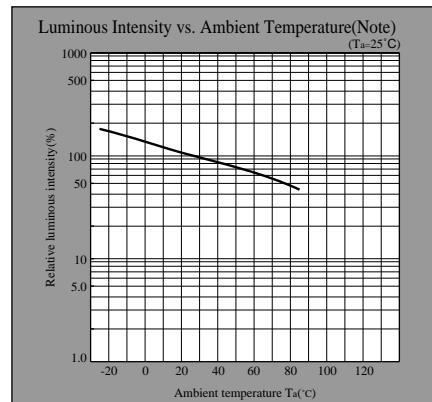
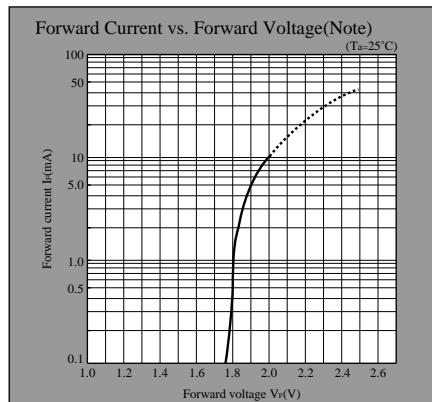
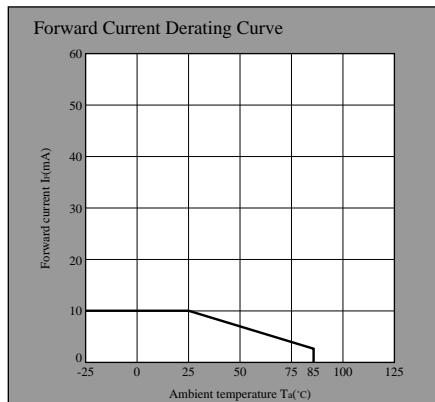
(Notice) In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP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

(Note) ① Data for the characteristics are measured in accordance with MIL-STD-202 (Temperature variation: -40 to +85°C)

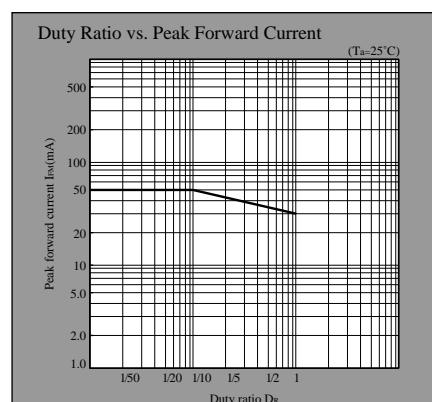
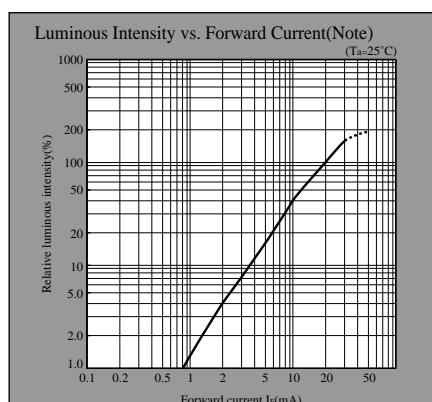
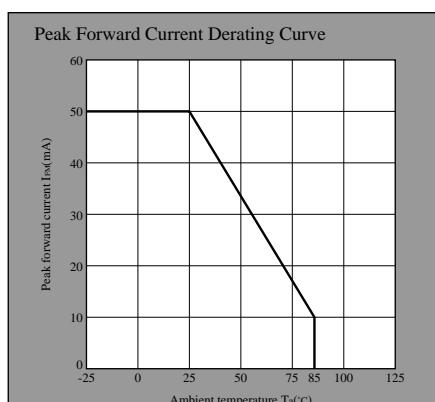
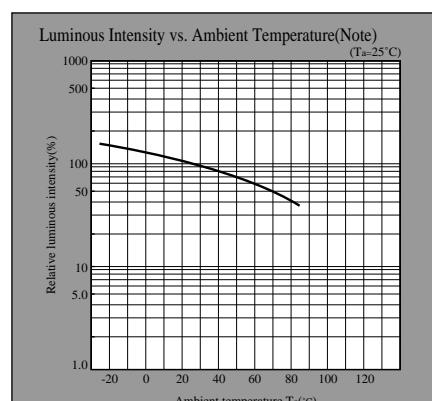
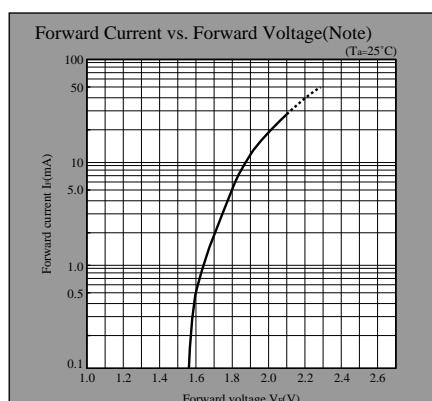
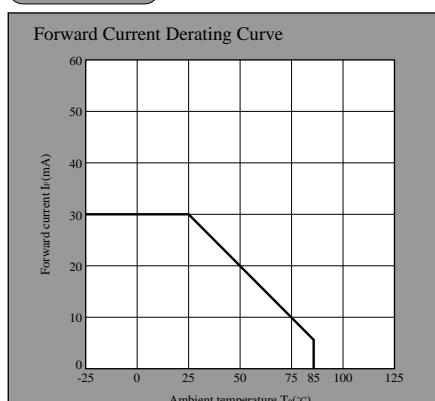


# LED Lamp Characteristics Diagrams

## PR series



## HD series



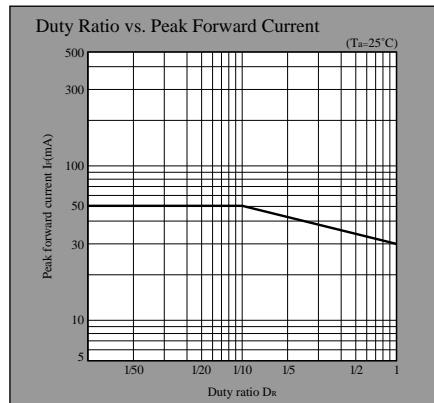
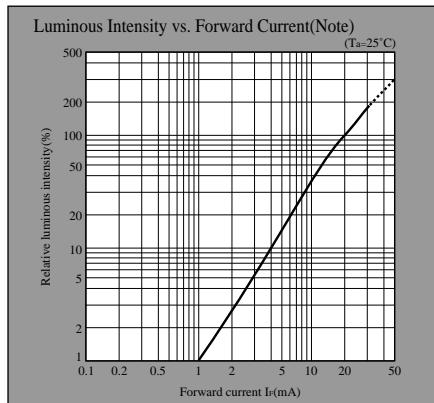
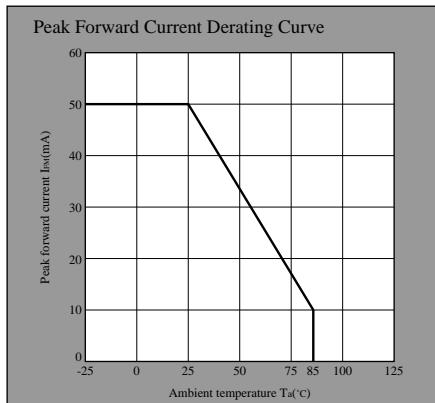
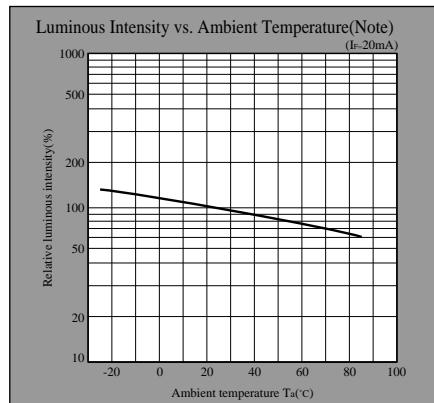
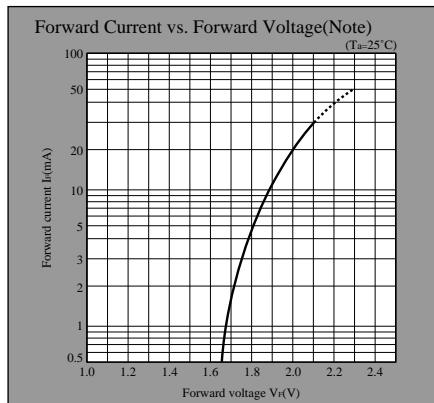
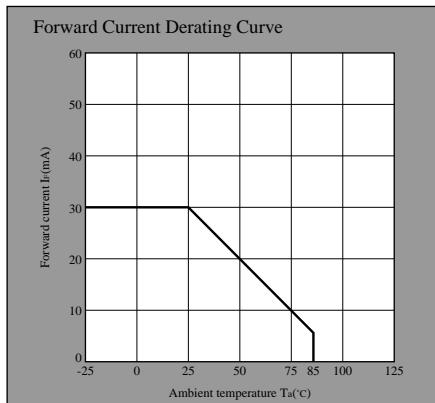
Note) Characteristics shown in diagrams are typical values. (not assurance value)

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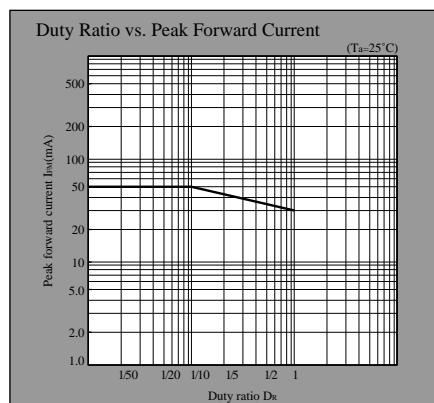
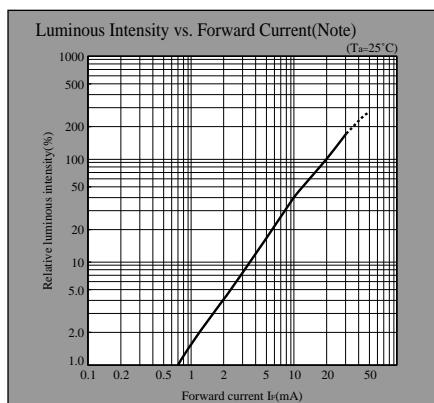
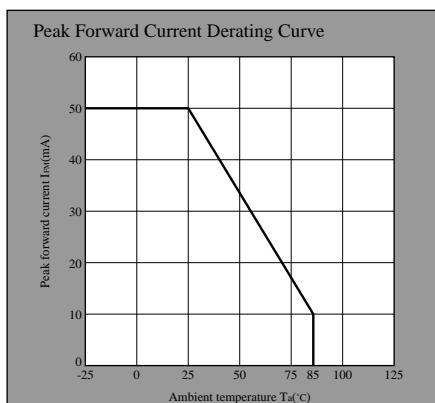
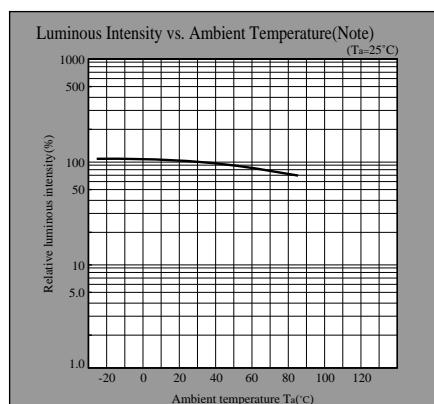
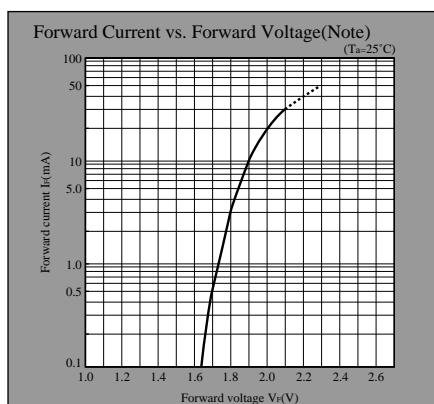
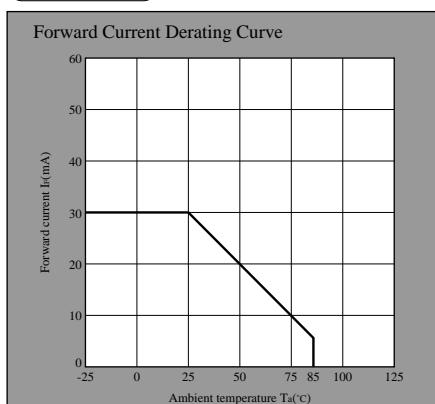
(Note) ● Data for the characteristics in these diagrams is measured at 100% duty ratio. (Ambient temperature 25°C, forward current 10mA, forward voltage 1.8V)

# LED Lamp Characteristics Diagrams

## HS series



## HY series



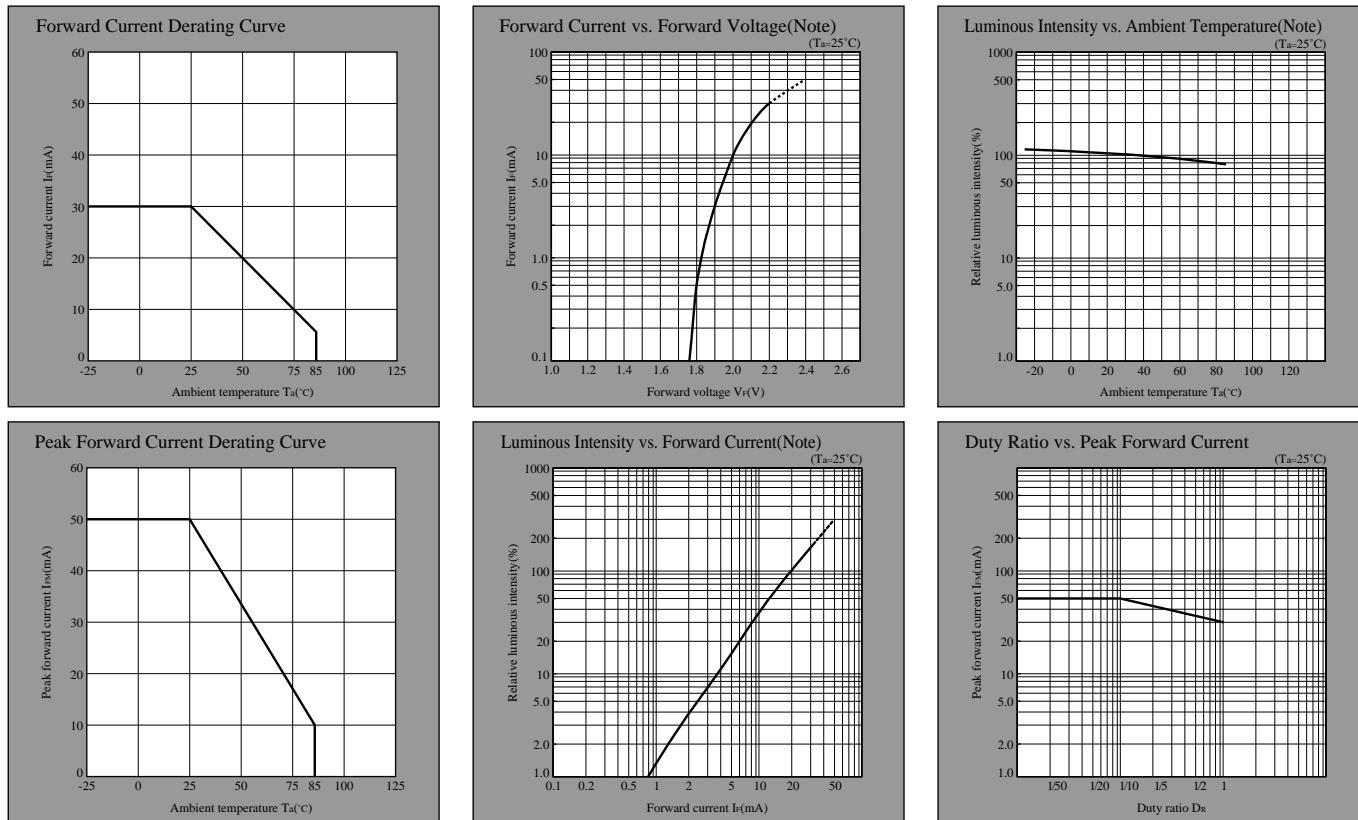
Note) Characteristics shown in diagrams are typical values. (not assurance value)

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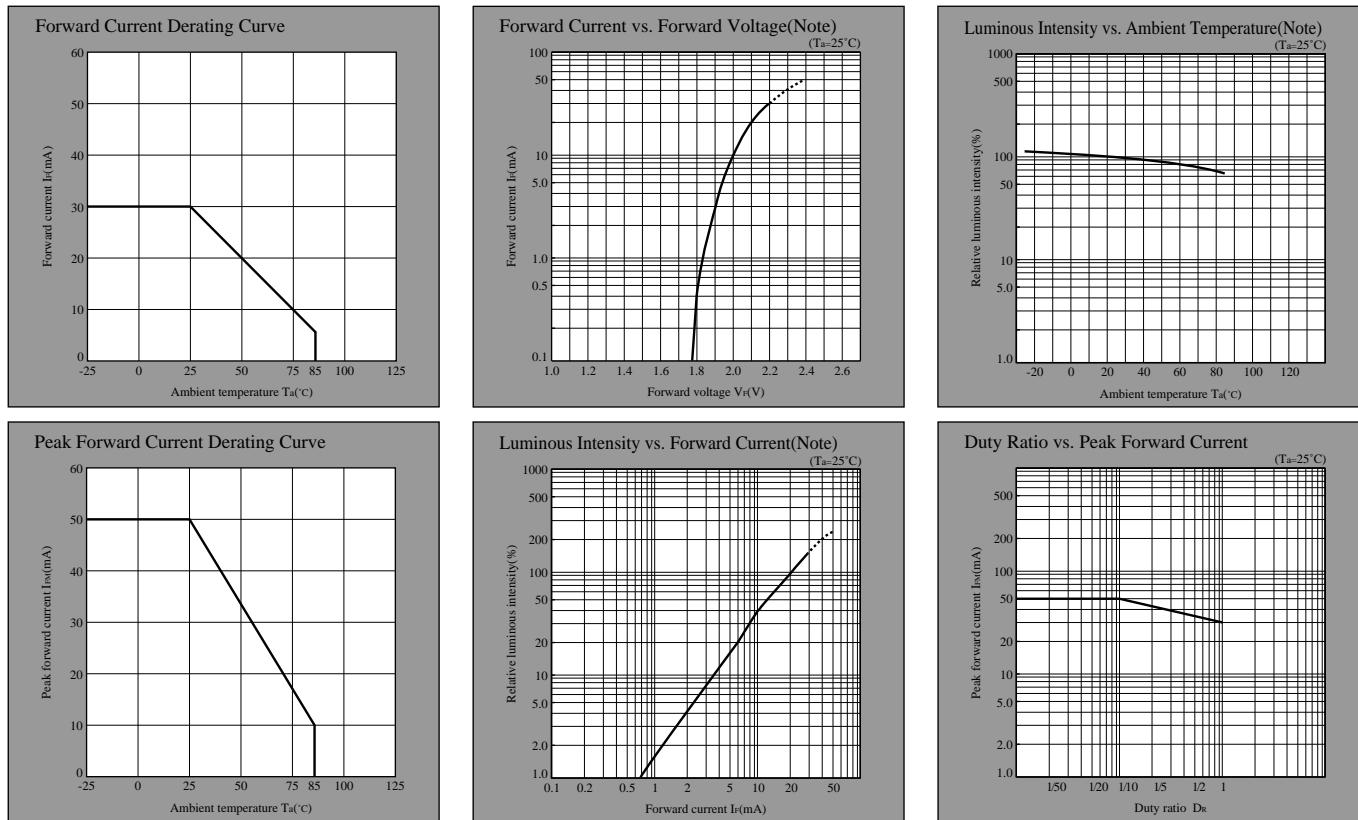
(Notice) • Due to the characteristics of the device, it is recommended to use it at a maximum ambient temperature of 40°C. Use under the "over-temperature protection" function.

# LED Lamp Characteristics Diagrams

## EG series



## KG series



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

(Notice) 

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(Note) 

- Peak forward current  $I_{fs}$  is the maximum current that can be sustained for a period of time. (Able to withstand 1/10 of the peak current for 100 hours.)