

LED Lamp

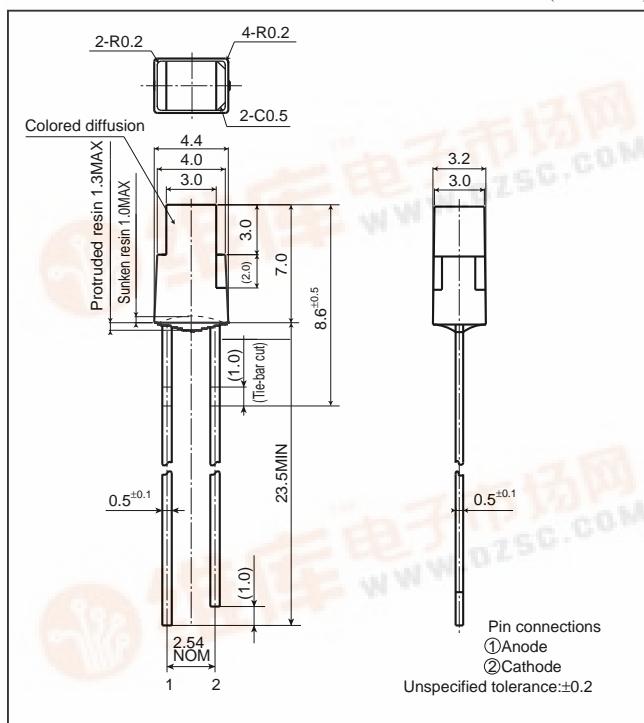
GL8□□48 series

GL8□□48 series

3.0×3.0mm, Square Type, Colored Diffusion LED Lamps for Indicator

■ Outline Dimensions

(Unit : mm)



■ 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				
GL8HD48	Red	GaAsP on GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL8HY48	Yellow	GaAsP on GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL8EG48	Yellow-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)

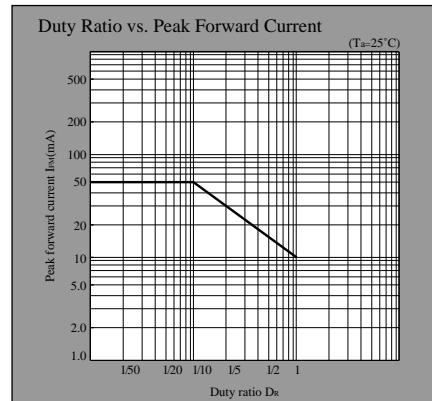
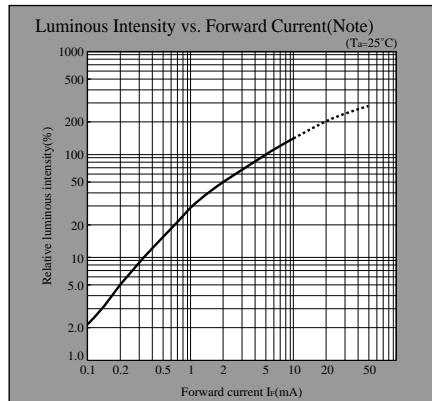
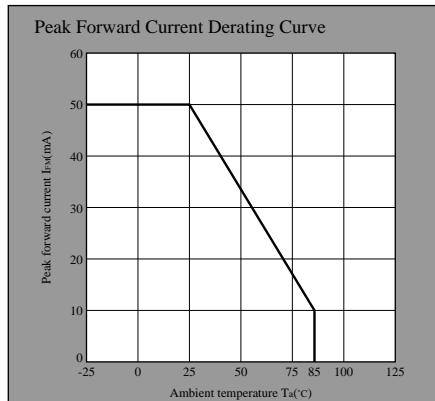
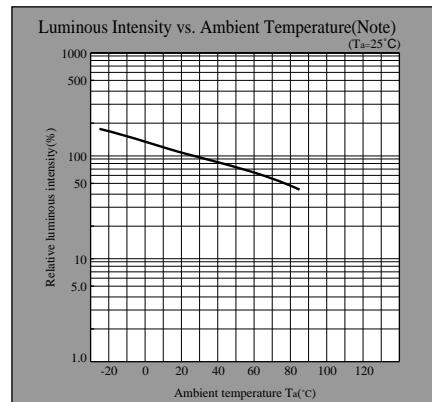
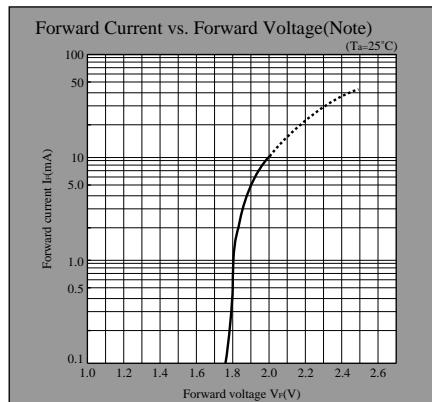
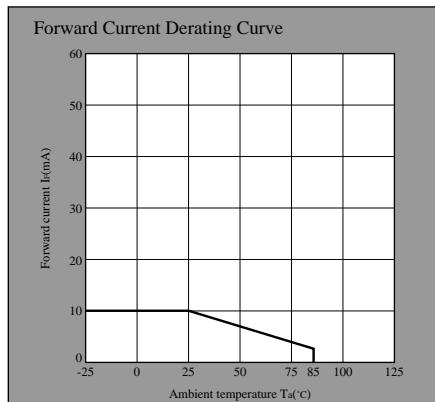
Lens type	Model No.	Forward voltage Vf(V)		Peak emission wavelength λp(nm)		Luminous intensity Iv(mcd)		Spectrum radiation bandwidth Δλ(nm)		Reverse current Ir(μA)		Terminal capacitance C(pF)		Page for characteristics diagrams
		TYP	MAX	TYP	Ir (mA)	TYP	Ir (mA)	TYP	Ir (mA)	MAX	Vr (V)	TYP	(MHz)	
Colored diffusion	GL8HD48	2.0	2.8	635	20	6.0	20	35	20	10	4	20	1	→
	GL8HY48	2.0	2.8	585	20	8.0	20	30	20	10	4	35	1	→
	GL8EG48	2.1	2.8	565	20	6.0	20	30	20	10	4	35	1	→

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.

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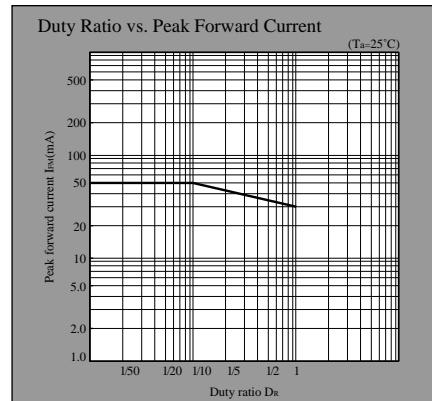
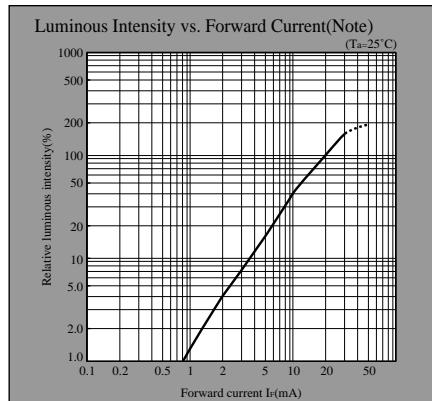
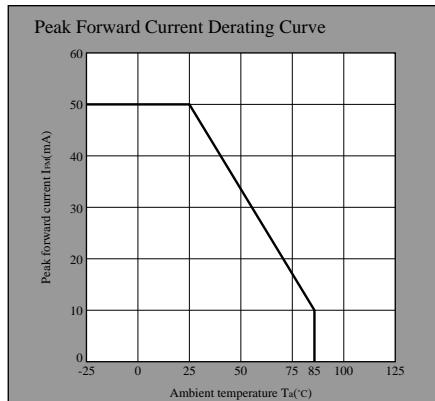
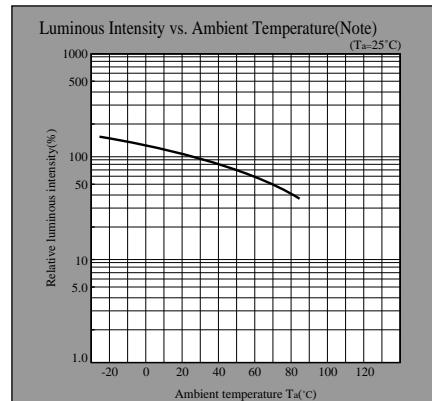
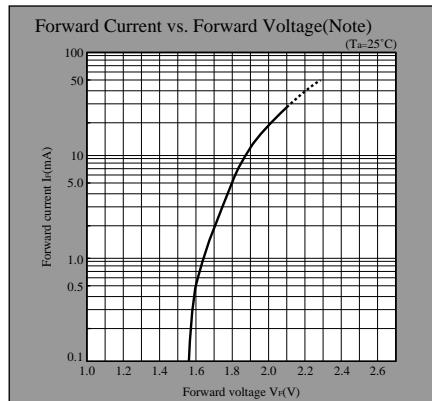
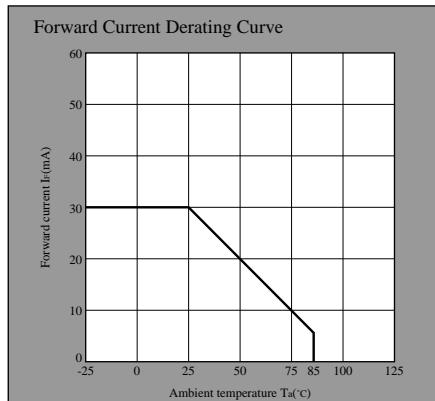
LED Lamp Characteristics Diagrams

PR series



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

HD series



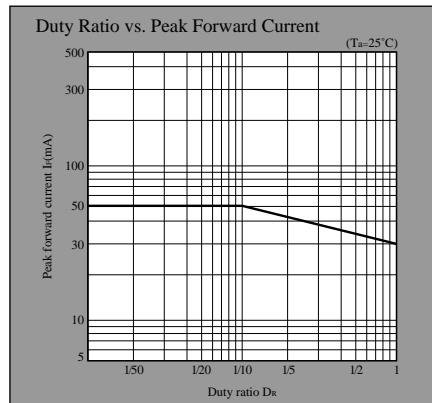
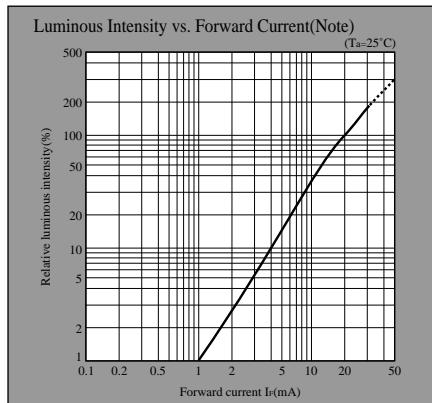
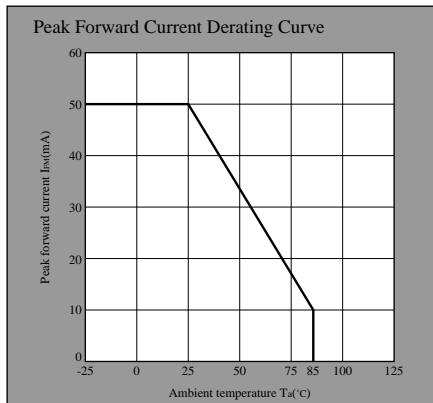
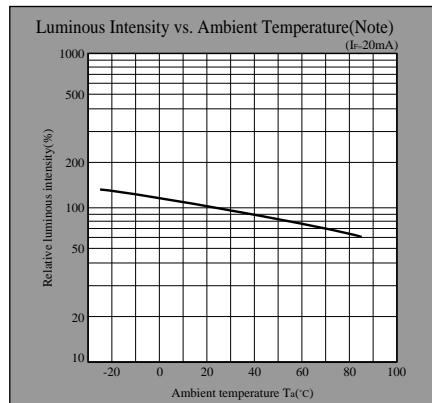
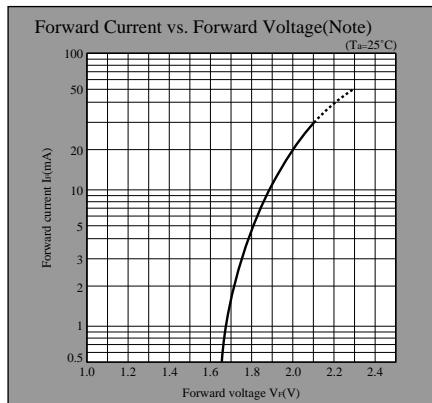
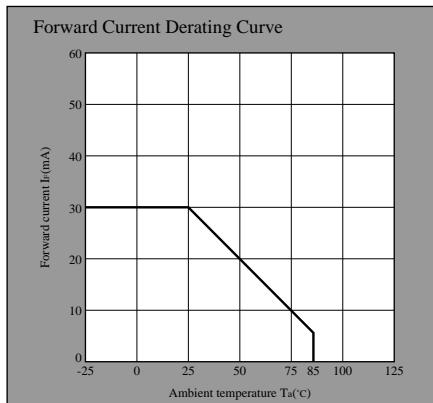
Note) Characteristics shown in diagrams are typical values. (not assurance value)

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(Note) ii Duty ratio is the ratio of the time during which the current is supplied to the time during which the current is not supplied.

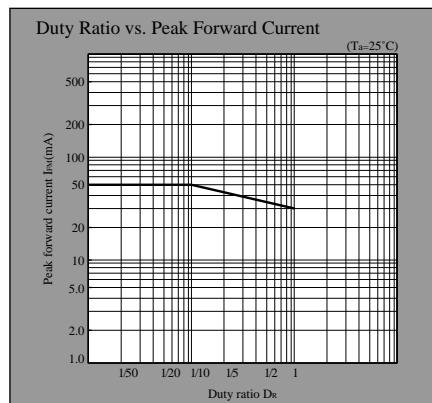
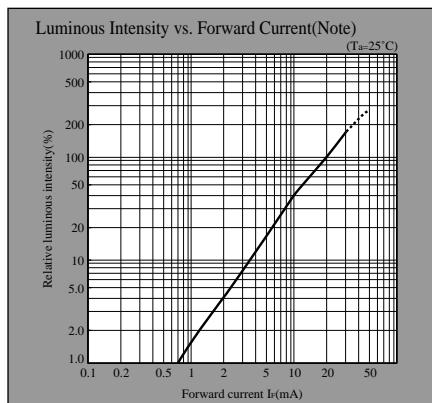
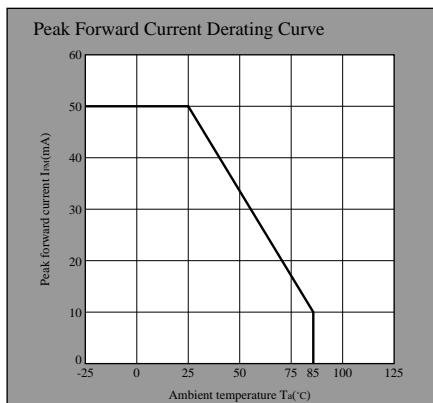
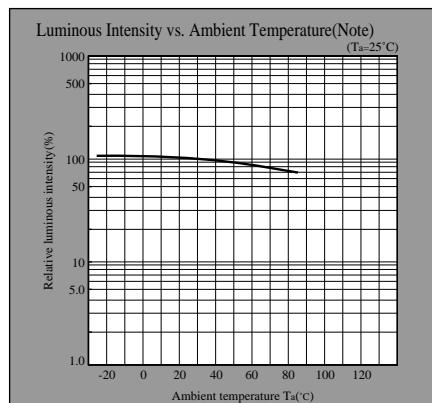
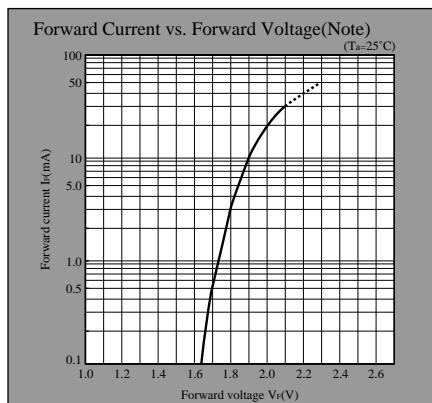
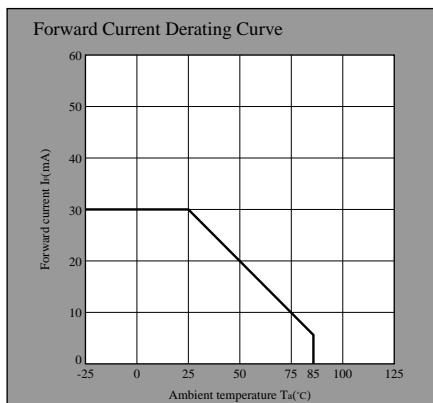
LED Lamp Characteristics Diagrams

HS series



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

HY series



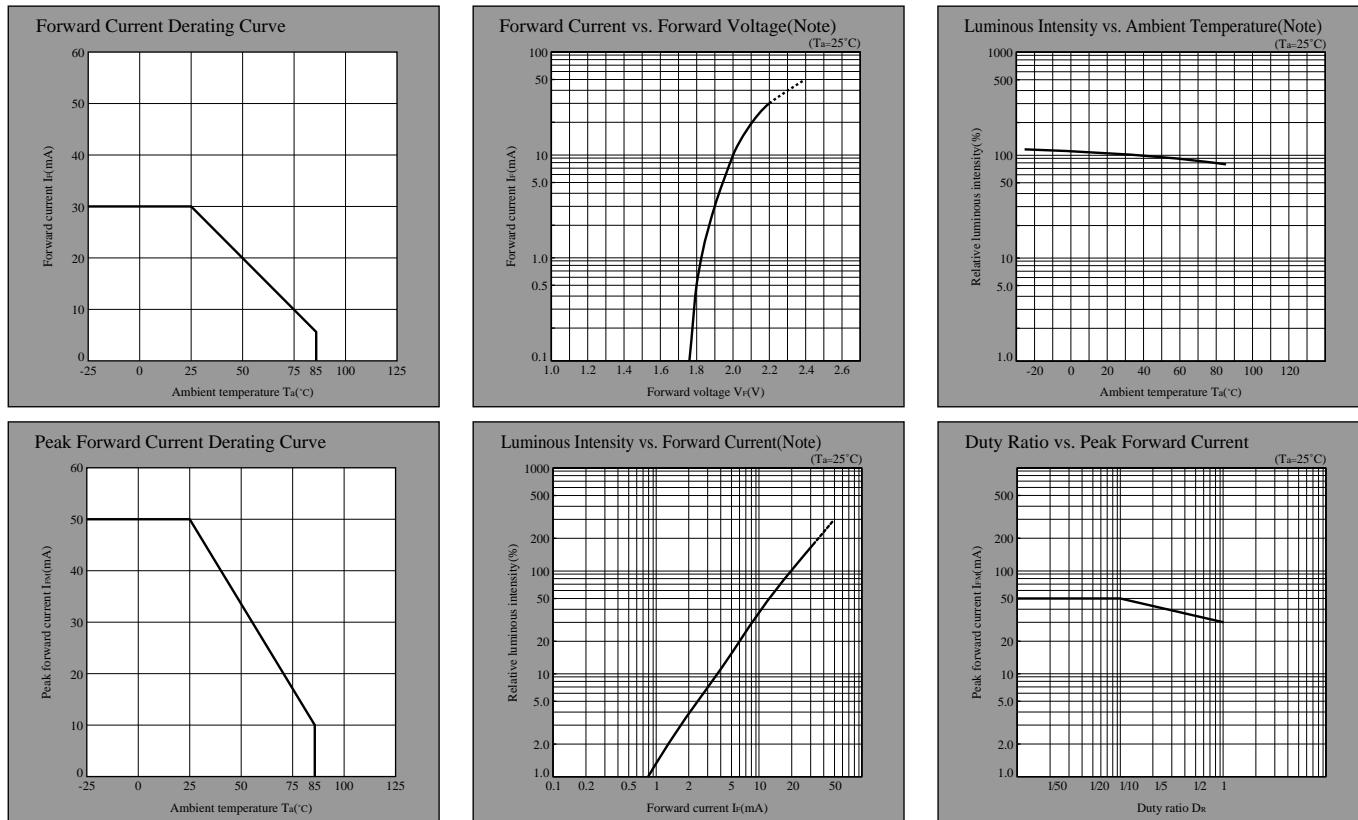
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(Notice) ii Due to the characteristics of the device, it is recommended to use a driver with a current limit of 1A. If used with a driver having a current limit of 0.5A or less, the device may become hot.

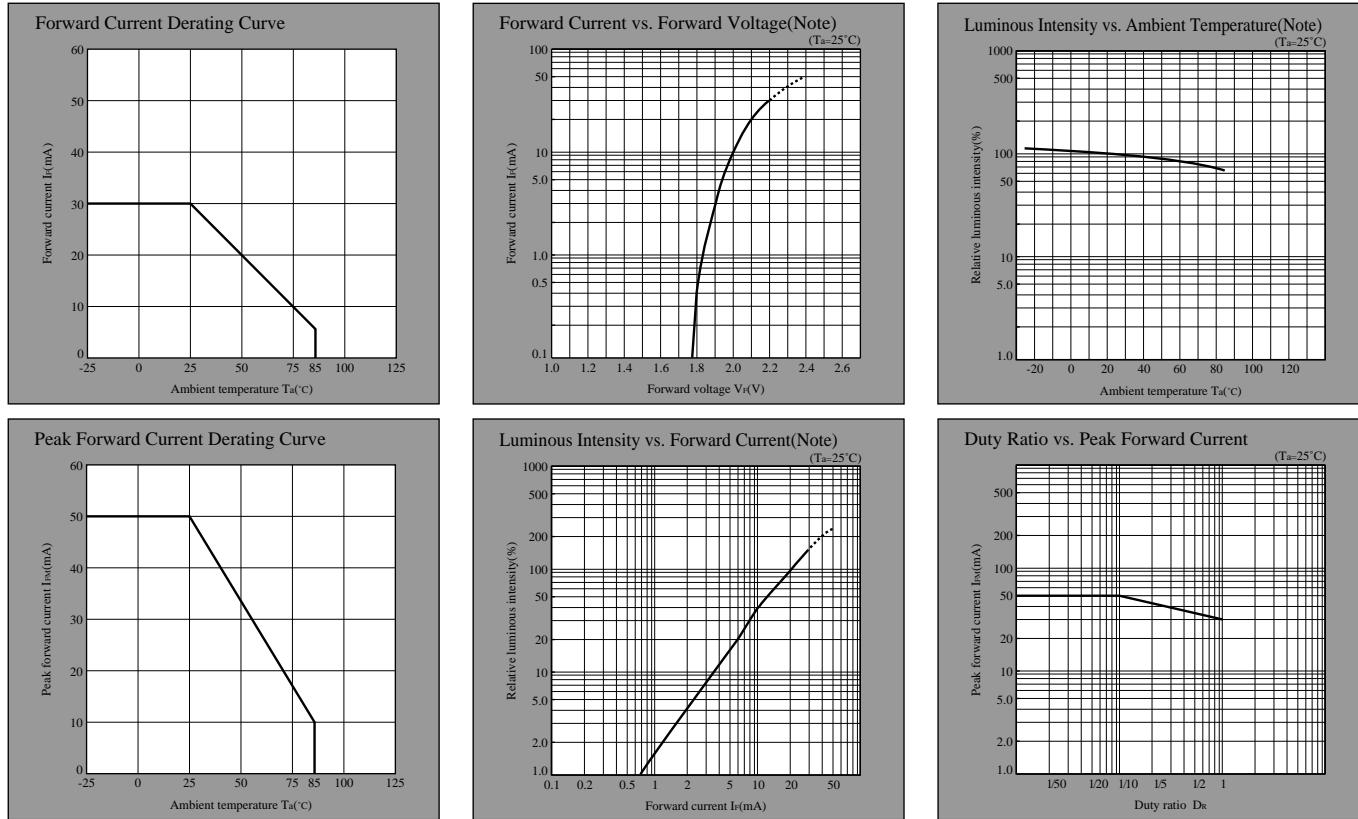
LED Lamp Characteristics Diagrams

EG series



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

KG series



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(Notice) ii Data for the characteristics in these diagrams is measured at 10°C intervals. (Ambient temperature T_a and forward current I_f)