

LED Lamp

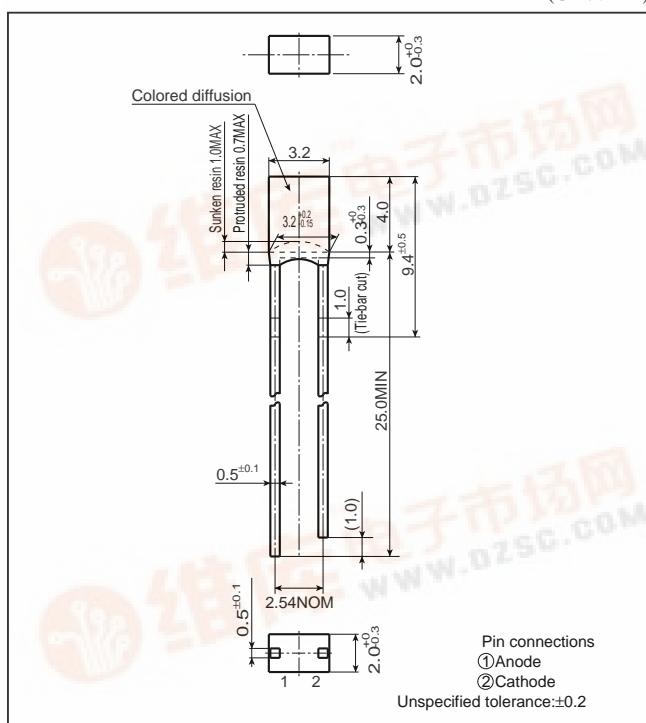
GL8□□29 series

GL8□□29 series

2.0×3.2mm, Rectangle 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				
GL8PR29	Red	GaP	48	20	50	0.27	0.67	5	-25 to +85	-25 to +100	260
GL8HS29	Sunset orange	GaAsP on GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL8HY29	Yellow	GaAsP on GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL8EG29	Yellow-green	GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL8KG29	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)

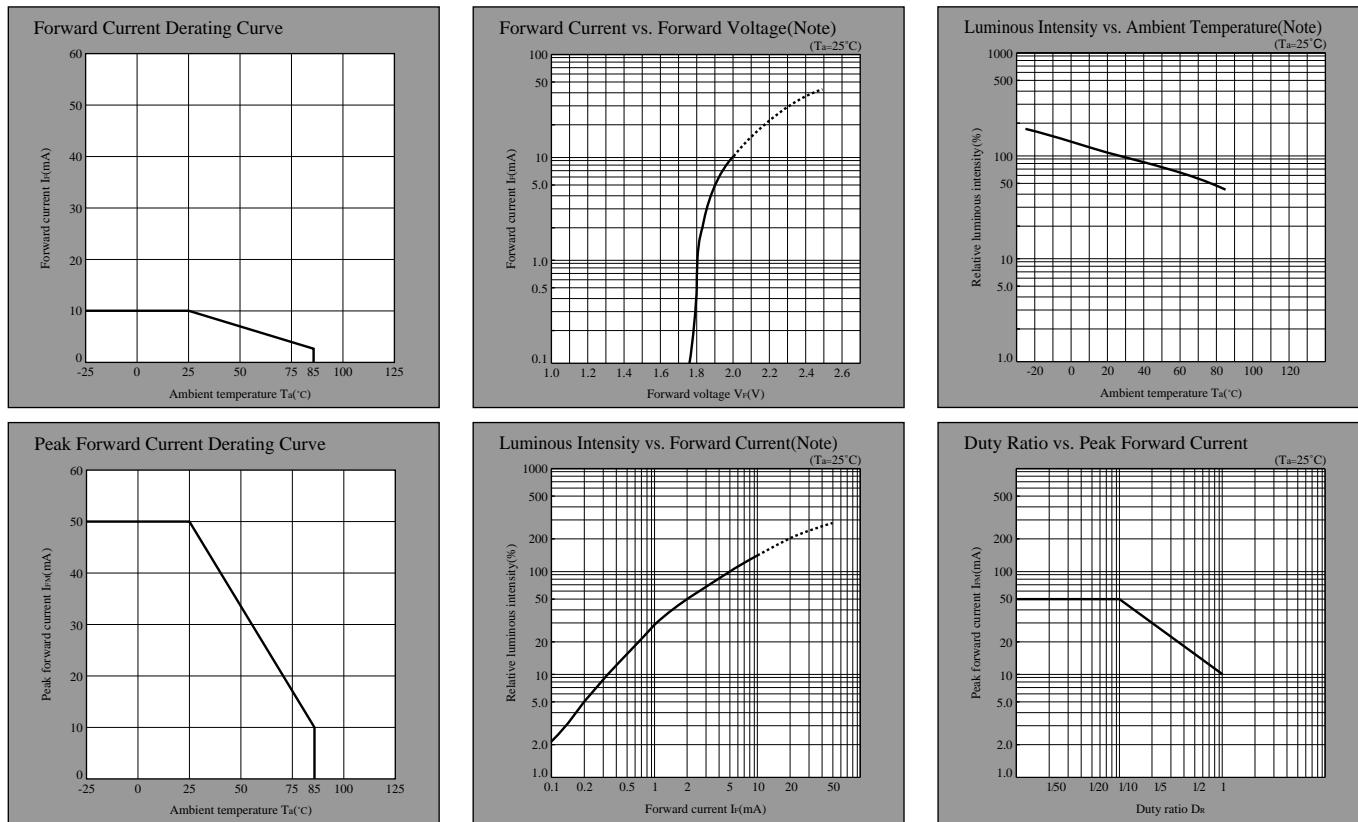
Lens type	Model No.	Forward voltage Vf(V)		Peak emission wavelength λp(nm)		Luminous intensity Iv(med)		Spectrum radiation bandwidth Δλ(nm)		Reverse current Ir(μA)		Terminal capacitance C(pF)		Page for characteristics diagrams
		TYP	MAX	TYP	If (mA)	TYP	If (mA)	TYP	If (mA)	MAX	Vr (V)	Typ	MHz	
Colored diffusion	GL8PR29	2.0	2.4	695	10	3.0	10	100	10	10	4	55	1	→
	GL8HS29	2.0	2.8	610	20	7.0	20	35	20	10	4	15	1	→
	GL8HY29	2.0	2.8	585	20	10.0	20	30	20	10	4	35	1	→
	GL8EG29	2.1	2.8	565	20	12.0	20	30	20	10	4	35	1	→
	GL8KG29	2.1	2.8	555	20	5.0	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.

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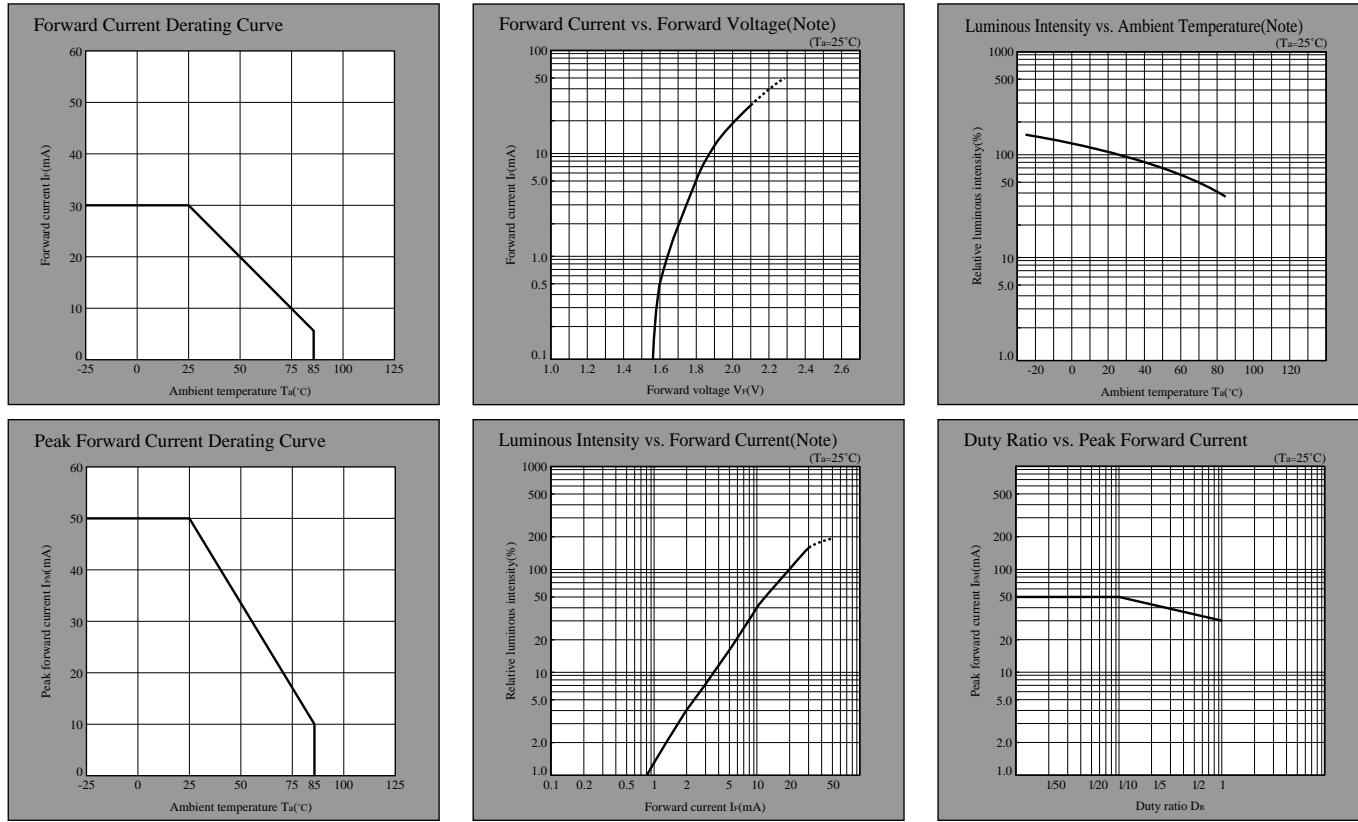
LED Lamp Characteristics Diagrams

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)

(Notice)

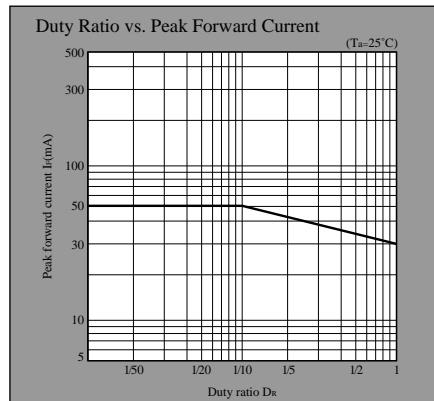
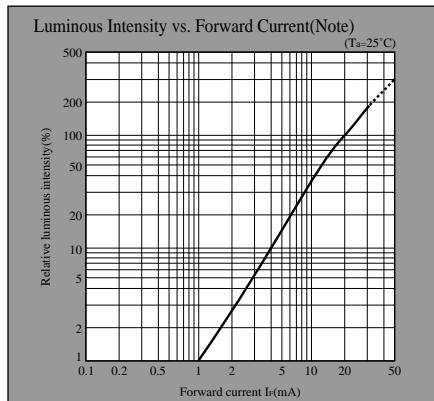
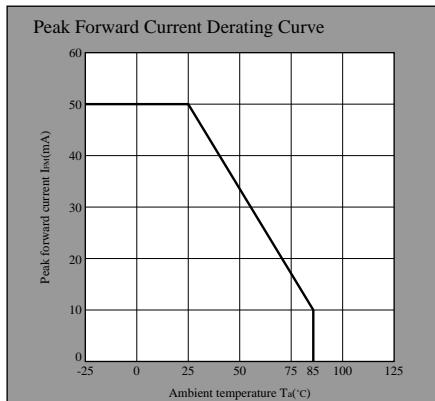
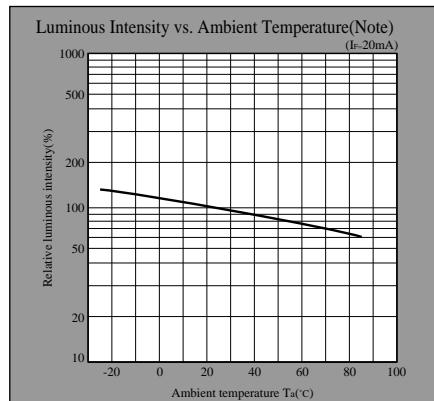
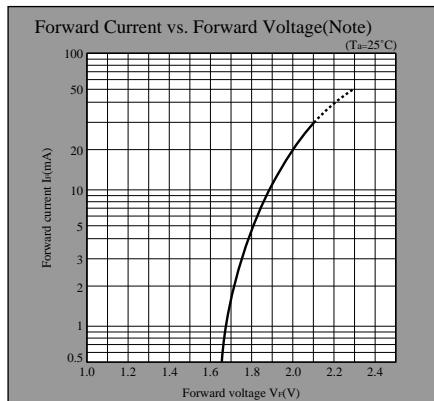
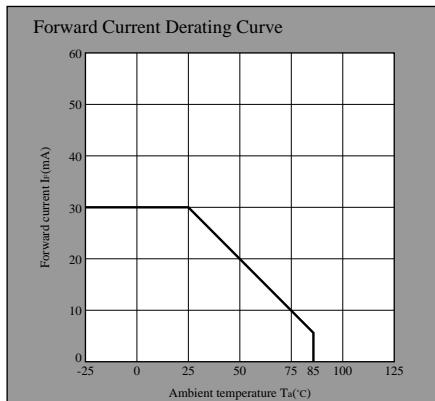
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(Note)

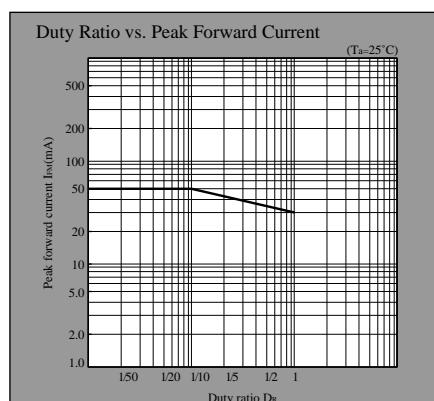
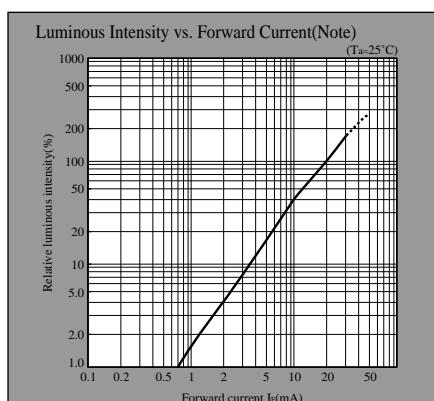
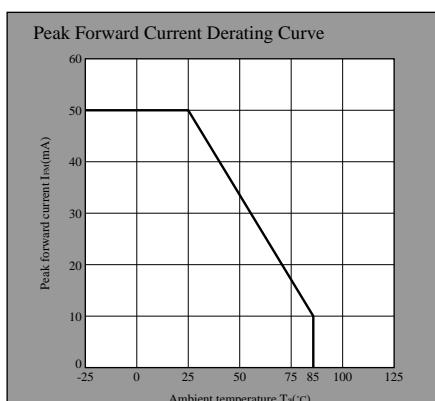
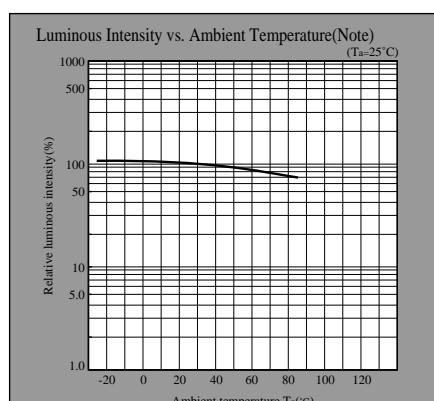
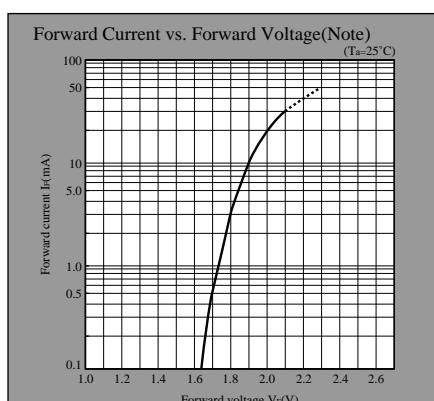
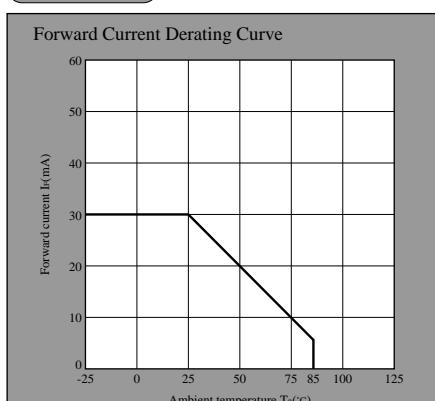
- Peak forward current $I_{f\text{p}}$ is measured at $V_f = 2.0\text{ V}$ and $T_a = 25^\circ\text{C}$.

LED Lamp Characteristics Diagrams

HS series



HY series



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(Caution)

Do not

overheat

overcurrent

overvoltage

overload

overpressure

overfrequency

overhumidity

overvibration

overload

overcurrent

overheat

overvoltage

overload

overpressure

overfrequency

overhumidity

overvibration

overload

overcurrent

overheat

overvoltage

overload

overpressure

overfrequency

overhumidity

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overvibration

overload

overcurrent

overheat

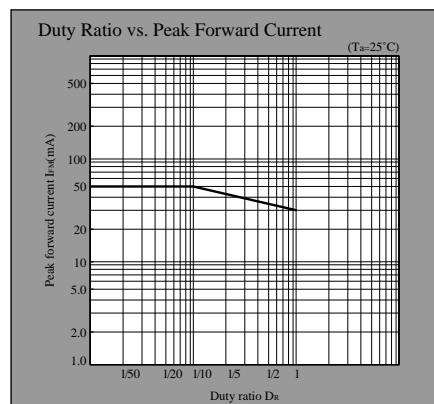
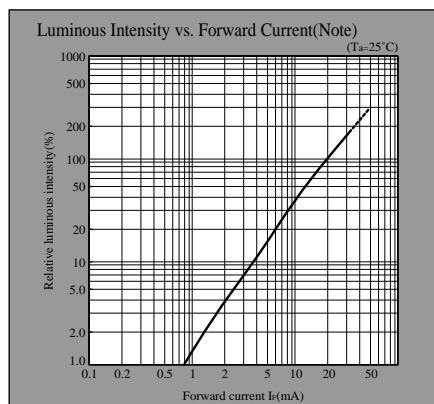
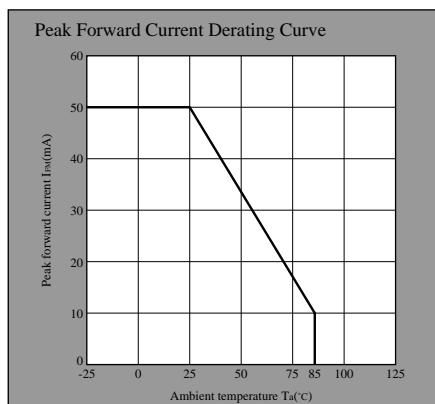
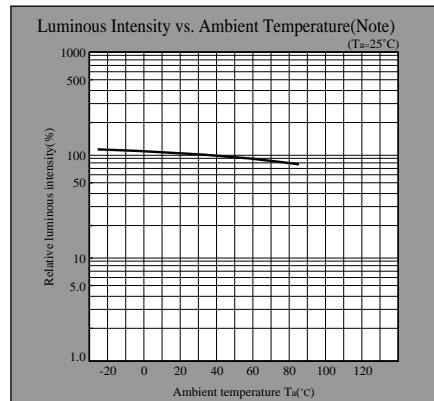
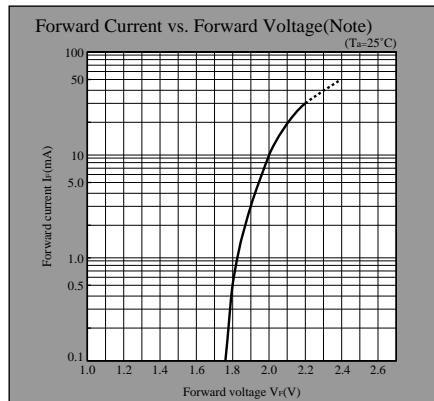
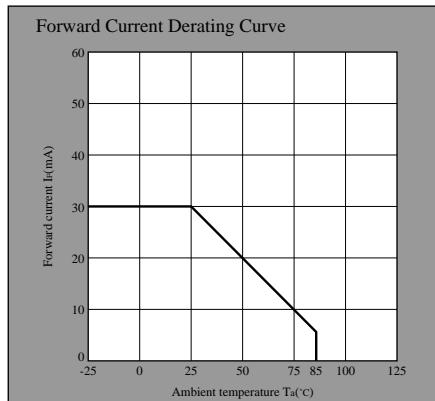
overvoltage

overload

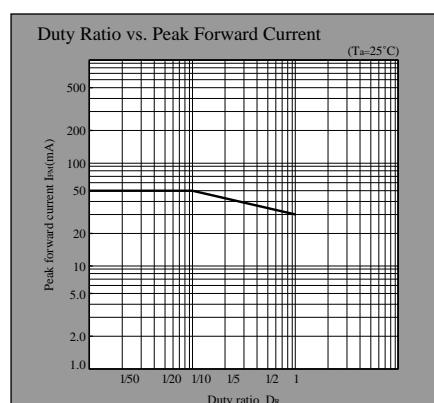
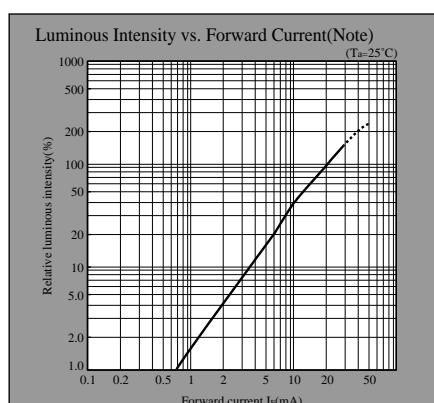
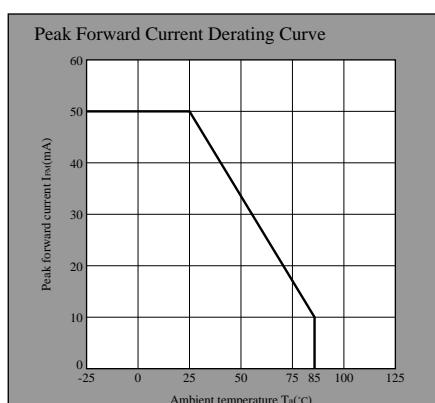
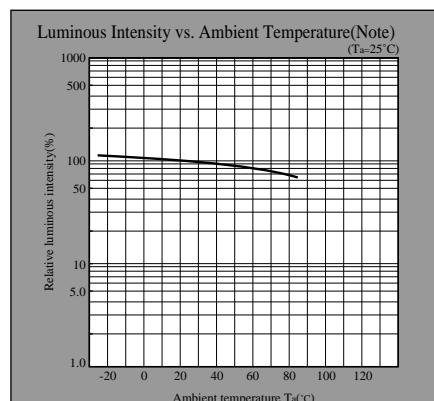
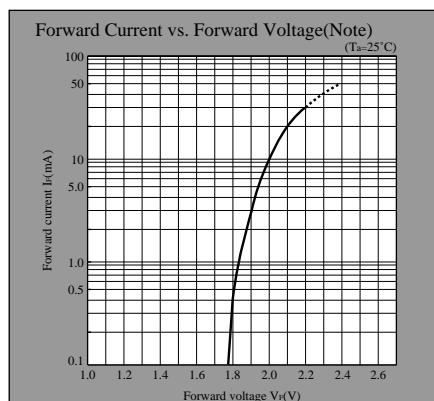
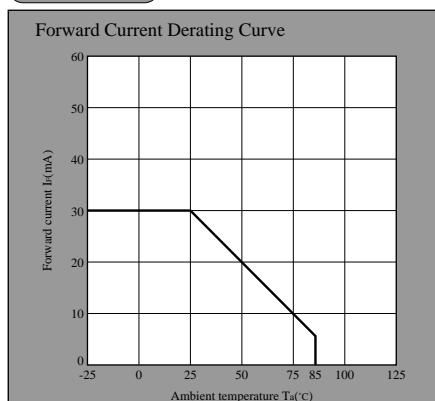
overpressure</p

LED Lamp Characteristics Diagrams

EG series



KG series



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(Note)

Data for the characteristics shown in the diagrams is measured at 1mA and 25°C (unless otherwise specified).