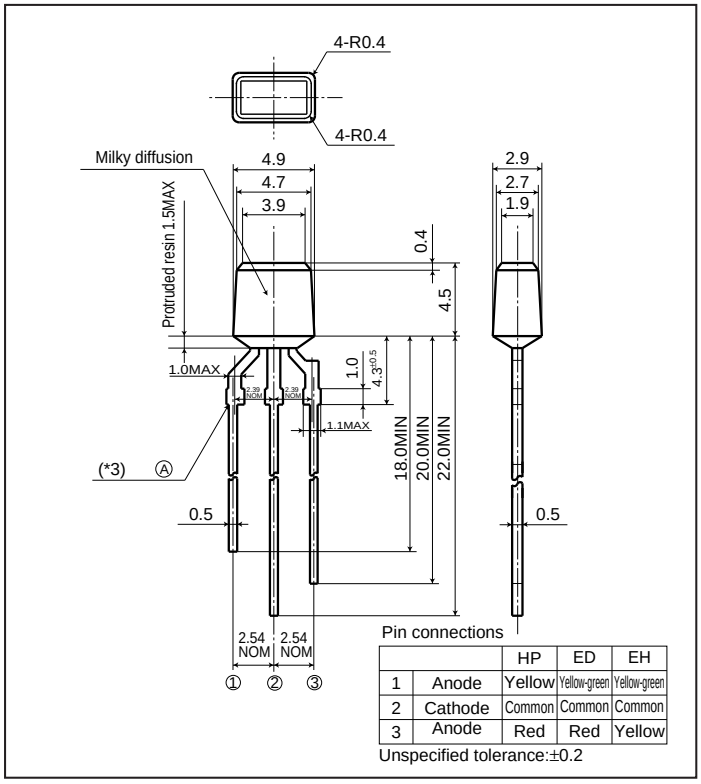
GL8❑❑5 series

1.9×3.9mm, Rectangle Type, Milky Diffusion, Dichromatic LED Lamps for Indicator

■ Outline Dimensions

(Unit : mm)



		HP	ED	EH
1	Anode	Yellow	Yellow-green	Yellow-green
2	Cathode	Common	Common	Common
3	Anode	Red	Red	Yellow

■ Absolute Maximum Ratings

(T_a=25˚C)

Model No.	Radiation color	Radiation material	Power dissipation P^{*1} (mW)	Forward current I_F (mA)	Peak forward current I_{FM}^{*2} (mA)	Derating factor (mA/˚C) DC	Derating factor (mA/˚C) Pulse	Reverse voltage V_R (V)	Operating temperature T_{opr} (˚C)	Storage temperature T_{stg} (˚C)	Soldering temperature T_{sol}^{*3} (˚C)
GL8ED5	Yellow-green	GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
	Red	GaAsP on GaP	84	30	50	0.40	0.67	5			
GL8EH5	Yellow-green	GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
	Yellow	GaAsP on GaP	84	30	50	0.40	0.67	5			
GL8HP5	Yellow	GaAsP on GaP	50	20	50	0.27	0.67	5	-25 to +85	-25 to +100	260
	Red	GaP	35	15	50	0.27	0.67	5			

*1 The value is specified under the condition that either color is lightened separately. When the both diodes are lightened simultaneously, the power dissipation of each diode should be less than the half of the value specified in this table.
*2 Duty ratio=1/10, Pulse width=0.1ms
*3 5s or less(At the position of 1.6mm or more from the bottom face of resin package)

■ Electro-optical Characteristics

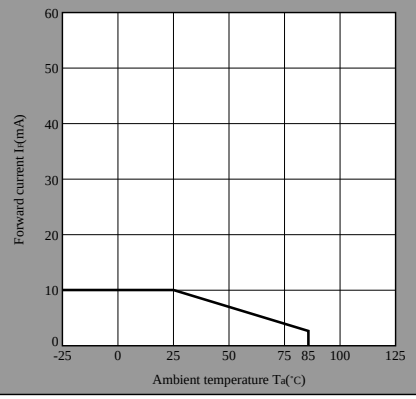
(T_a=25˚C)

Lens type	Model No.	Radiation color	Forward voltage V_F(V) TYP	Forward voltage V_F(V) MAX	Peak emission wavelength λ_p(nm) TYP	Peak emission wavelength I_F (mA)	Luminous intensity I_V(mcd) TYP	Luminous intensity I_F (mA)	Spectrum radiation bandwidth Δλ(nm) TYP	Spectrum radiation bandwidth I_F (mA)	Reverse current I_R(μA) MAX	Reverse current V_R (V)	Terminal capacitance C_t(pF) TYP	Terminal capacitance (MHz)	Page for characteristics diagrams
Milky diffusion	GL8ED5	Yellow-green	2.1	2.8	565	20	10.0	20	30	20	10	4	35	1	→
		Red	2.0	2.8	635	20	6.5	20	35	20	10	4	20	1	→
	GL8EH5	Yellow-green	2.1	2.8	565	20	15.0	20	30	20	10	4	35	1	→
		Yellow	2.0	2.8	585	20	13.0	20	35	20	10	4	30	1	→
	GL8HP5	Yellow	1.9	2.5	585	10	3.0	10	30	10	10	4	35	1	→
		Red	1.9	2.3	695	10	1.5	10	100	10	10	4	55	1	→

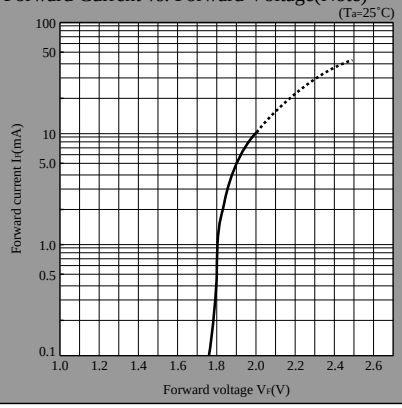
LED Lamp Characteristics Diagrams

PR series

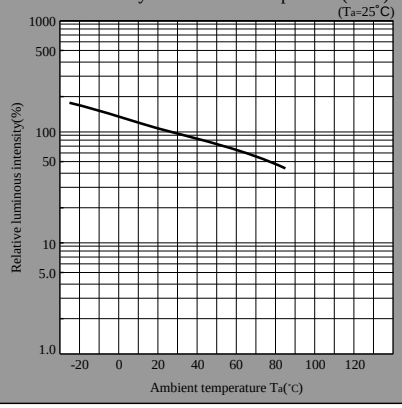
Forward Current Derating Curve



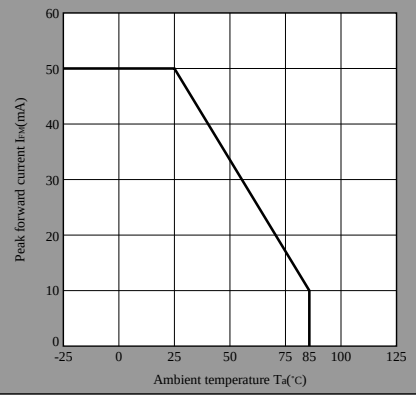
Forward Current vs. Forward Voltage(Note)



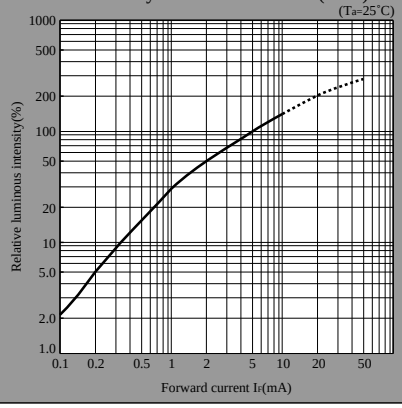
Luminous Intensity vs. Ambient Temperature(Note)



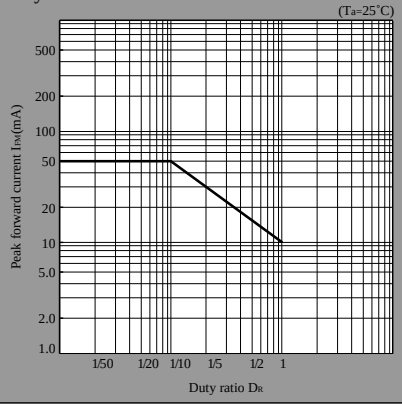
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)

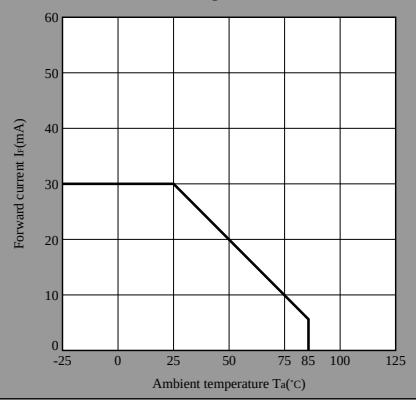


Duty Ratio vs. Peak Forward Current

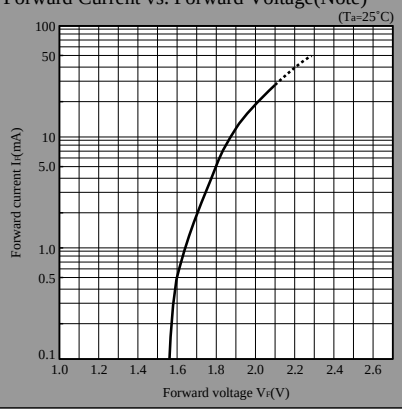


HD series

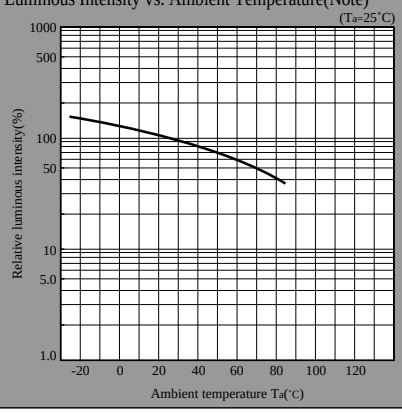
Forward Current Derating Curve



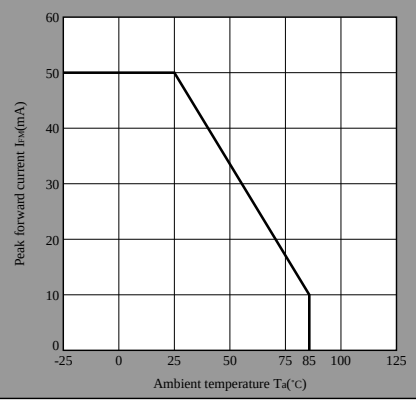
Forward Current vs. Forward Voltage(Note)



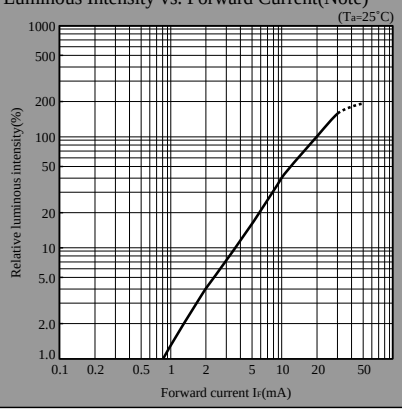
Luminous Intensity vs. Ambient Temperature(Note)



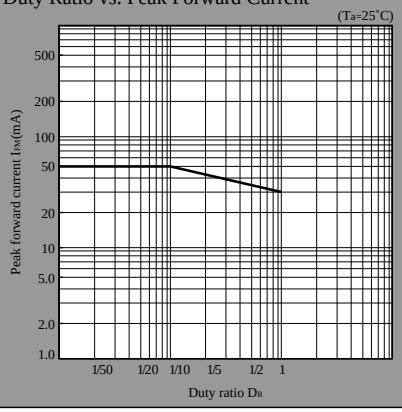
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



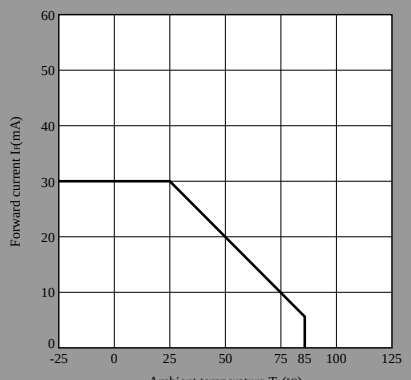
Duty Ratio vs. Peak Forward Current



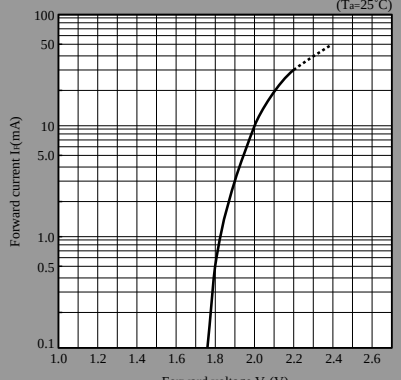
Note)Characteristics shown in diagrams are typical values. (not assurance value)

EG series

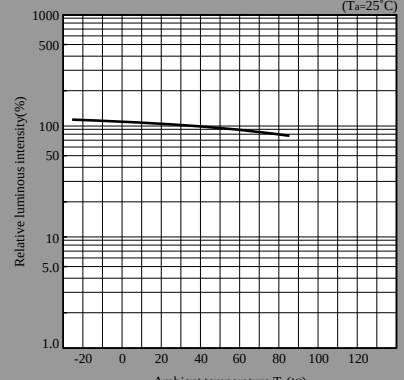
Forward Current Derating Curve



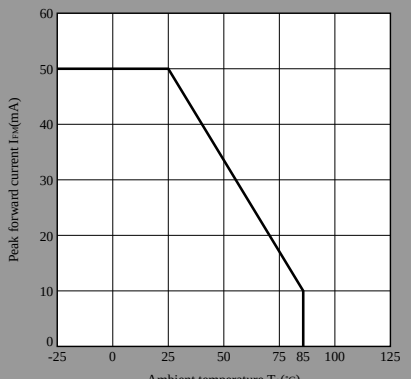
Forward Current vs. Forward Voltage(Note)



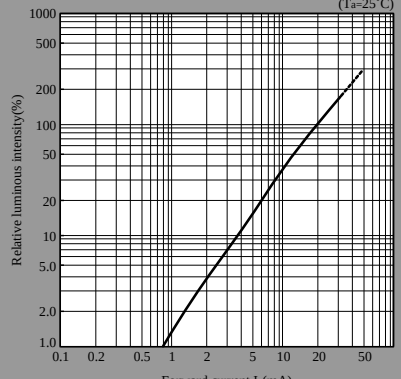
Luminous Intensity vs. Ambient Temperature(Note)



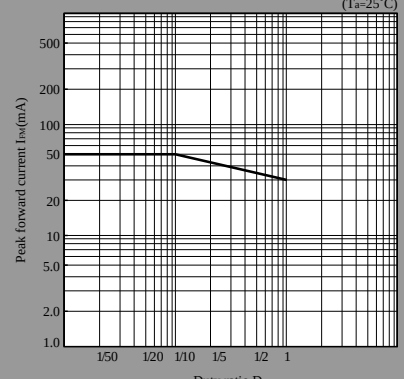
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



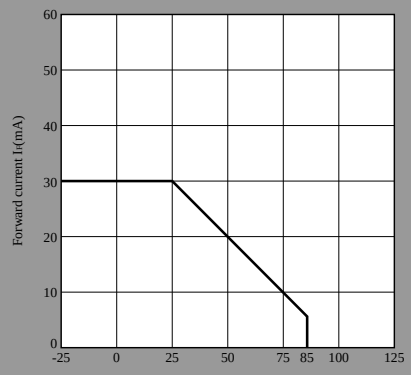
Duty Ratio vs. Peak Forward Current



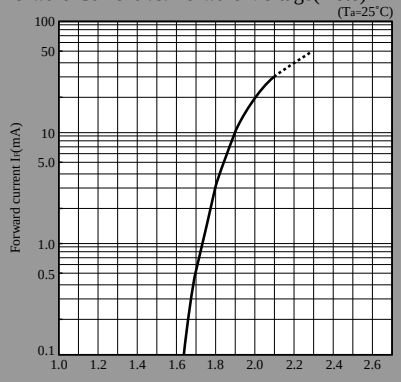
Note)Characteristics shown in diagrams are typical values. (not assurance value)

HY series

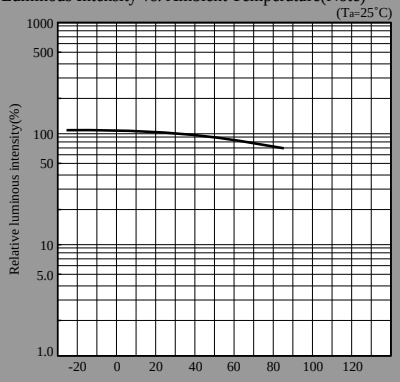
Forward Current Derating Curve



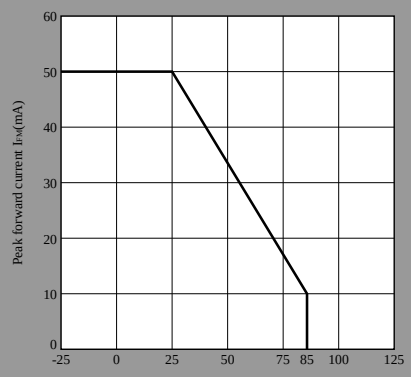
Forward Current vs. Forward Voltage(Note)



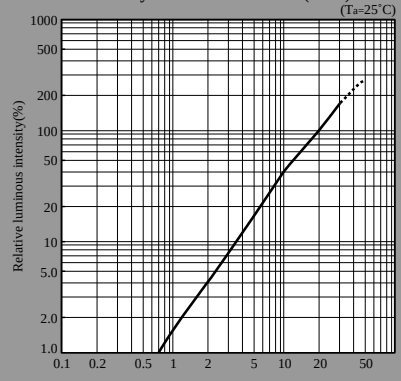
Luminous Intensity vs. Ambient Temperature(Note)



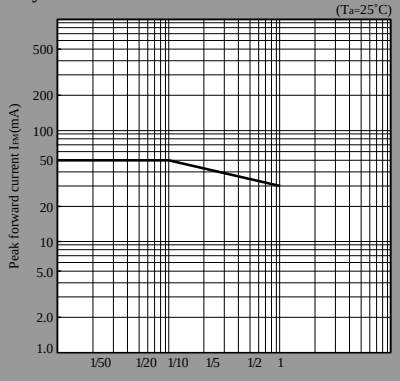
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



Duty Ratio vs. Peak Forward Current



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