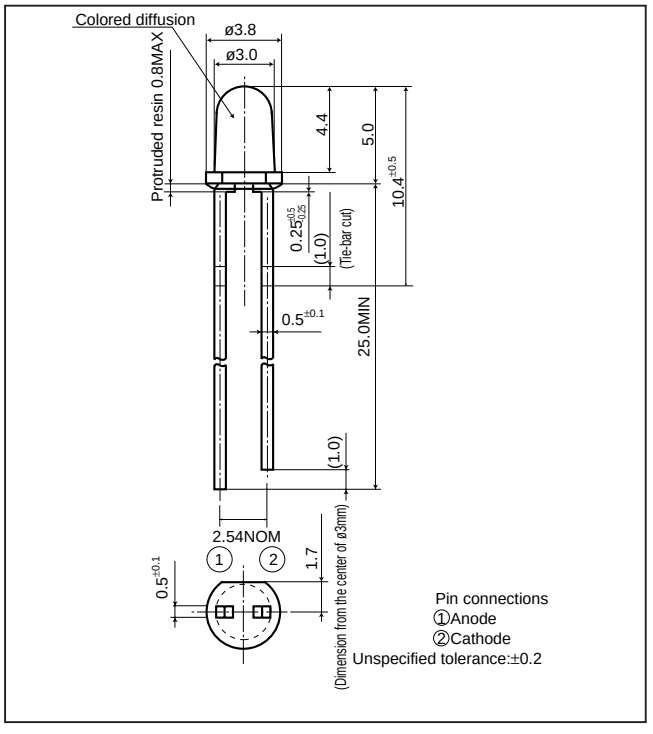
GL3❑❑8 series

ø3mm(T-1), Cylinder Type, Colored Diffusion, High-luminosity LED Lamps for Indicator

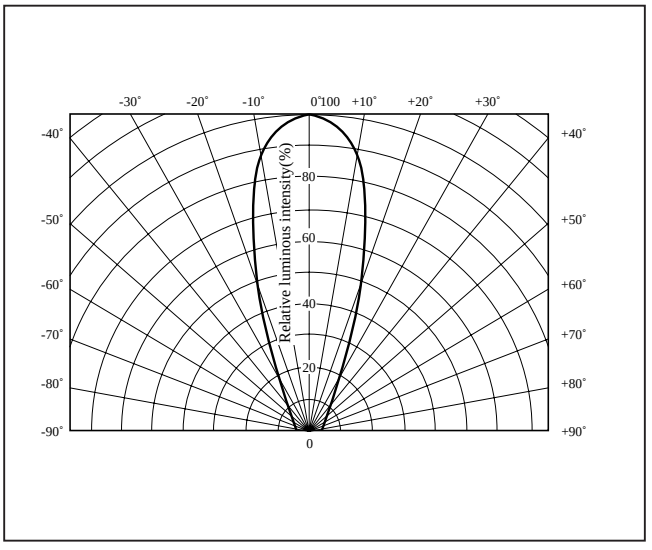
■ Outline Dimensions

(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 I_F (mA)	Peak forward current I_{FM} (mA)	Derating factor (mA/˚C)		Reverse voltage V_R (V)	Operating temperature T_{opr} (˚C)	Storage temperature T_{stg} (˚C)	Soldering temperature T_{sol}*3 (˚C)
						DC	Pulse				
GL3UR8	Red(Super-luminosity)	GaA1As on GaA1As	75	30	50*1	0.40	0.67	4	-25 to +85	-25 to +100	260
GL3TR8	Red(High-luminosity)	GaA1As on GaAs	110	50	300*2	0.67	4.00	5	-25 to +85	-25 to +100	260
GL3HJ8	Orange(Super-luminosity)	A1GaInP	130	50	100*1	0.67	1.33	4.1	-25 to +85	-25 to +100	260
GL3HV8	Yellow(Super-luminosity)	A1GaInP	130	50	100*1	0.67	1.33	4.1	-25 to +85	-25 to +100	260

*1 Duty ratio=1/10, Pulse width=0.1ms
*2 Duty ratio=1/16, Pulse width≤1ms
*3 5s or less(At the position of 1.6mm or more from the bottom face of resin package)

■ Electro-optical Characteristics

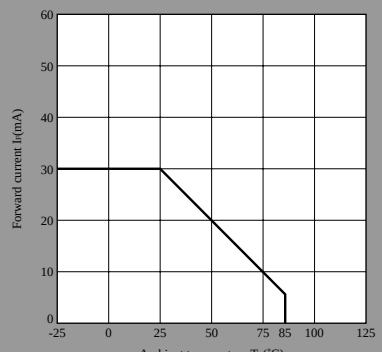
(Ta=25˚C)

Lens type	Model No.	Forward voltage V_F(V)		Peak emission wavelength		Luminous intensity		Spectrum radiation bandwidth		Reverse current		Terminal capacitance		Page for characteristics diagrams
		TYP	MAX	λ_p(nm) TYP	I_F (mA)	I_V(mcd) TYP	I_F (mA)	$\Delta\lambda$(nm) TYP	I_F (mA)	I_R(μA) MAX	V_R (V)	C_t(pF) TYP	(MHz)	
Colored diffusion	GL3UR8	1.85	2.5	660	20	300	20	20	20	100	3	25	1	→
	GL3TR8	1.75	2.2	660	20	60	20	20	20	10	4	30	1	→
	GL3HJ8	1.9	2.6	620	20	800	20	18	20	100	4	26	1	→
	GL3HV8	1.9	2.6	590	20	350	20	13	20	100	4	24	1	→

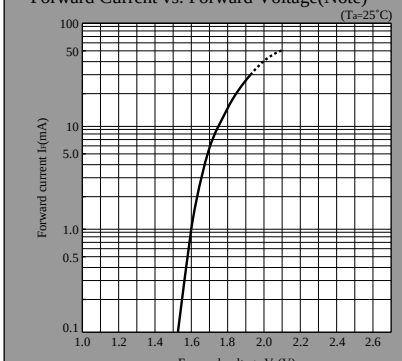
LED Lamp Characteristics Diagrams

UR series

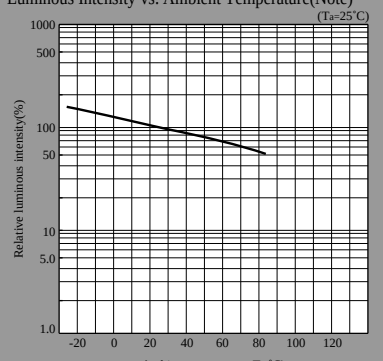
Forward Current Derating Curve



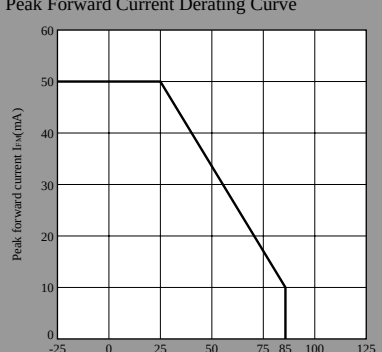
Forward Current vs. Forward Voltage(Note)



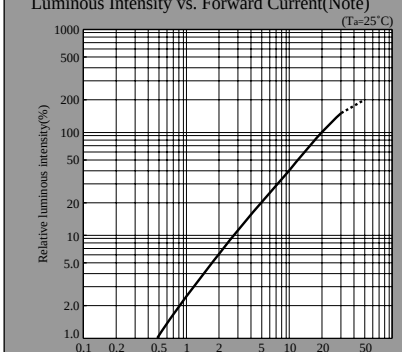
Luminous Intensity vs. Ambient Temperature(Note)



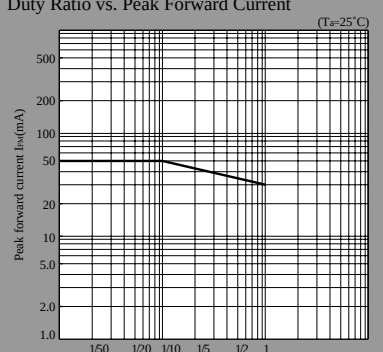
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)

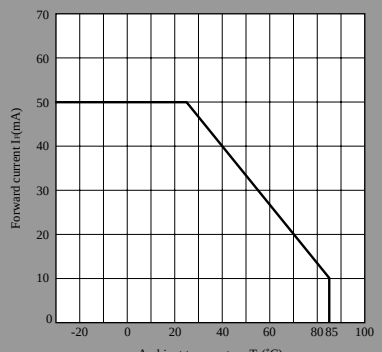


Duty Ratio vs. Peak Forward Current

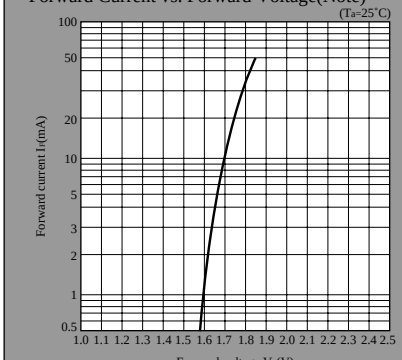


TR series

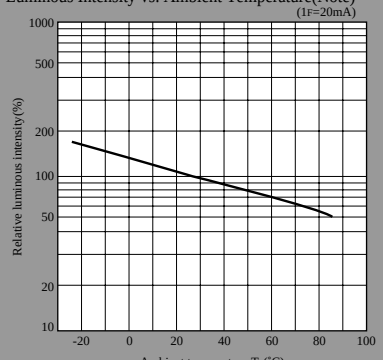
Forward Current Derating Curve



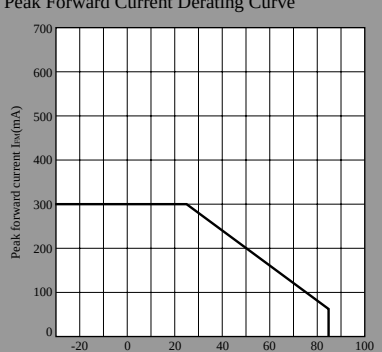
Forward Current vs. Forward Voltage(Note)



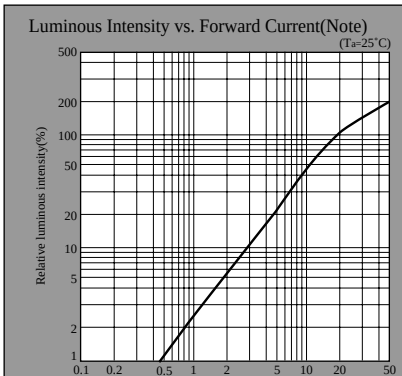
Luminous Intensity vs. Ambient Temperature(Note)



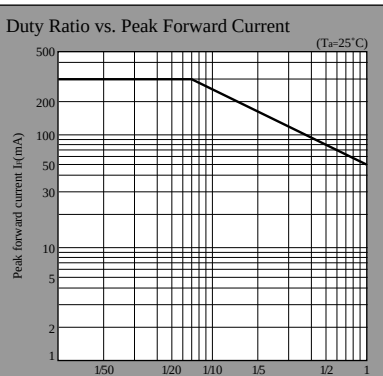
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



Duty Ratio vs. Peak Forward Current

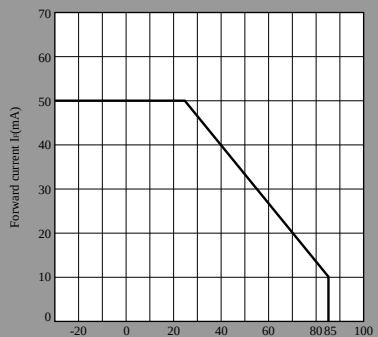


Note)Characteristics shown in diagrams are typical values. (not assurance value)

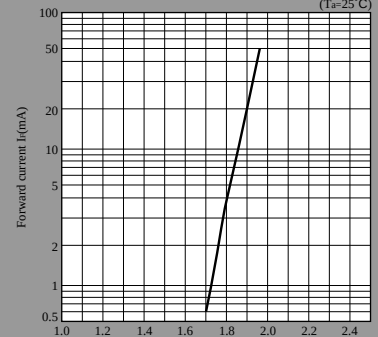
LED Lamp Characteristics Diagrams

HV series

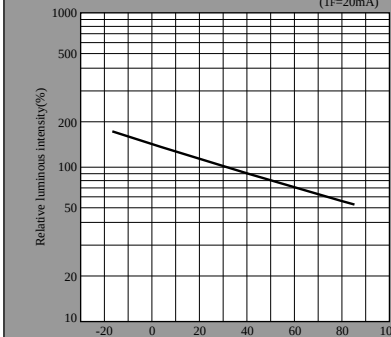
Forward Current Derating Curve



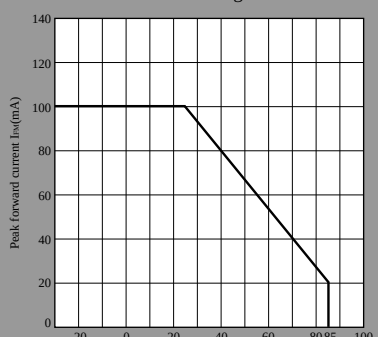
Forward Current vs. Forward Voltage(Note)



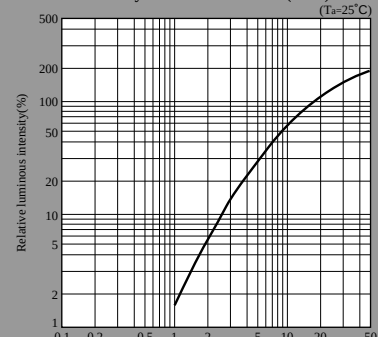
Luminous Intensity vs. Ambient Temperature(Note)



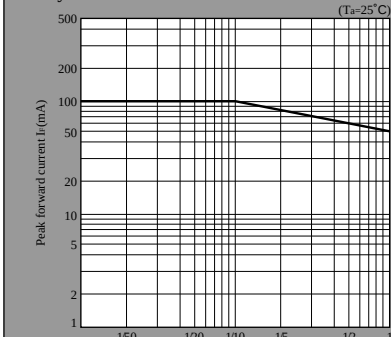
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)

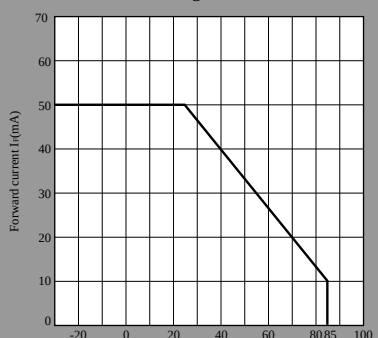


Duty Ratio vs. Peak Forward Current

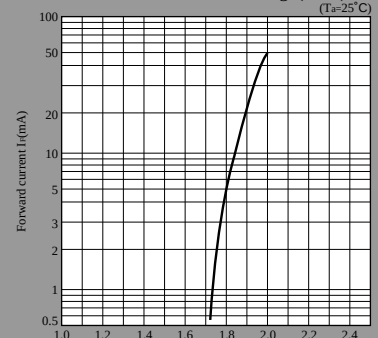


HJ series

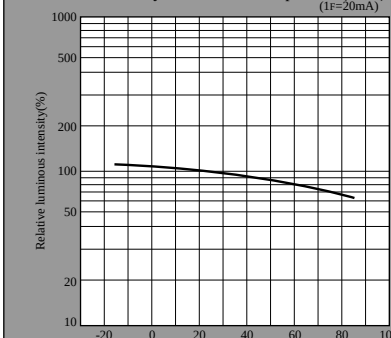
Forward Current Derating Curve



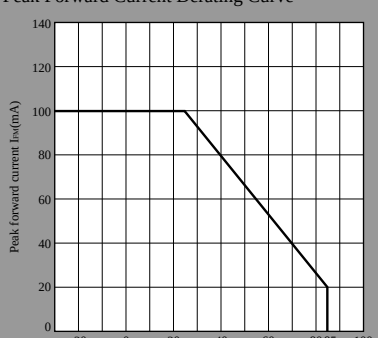
Forward Current vs. Forward Voltage(Note)



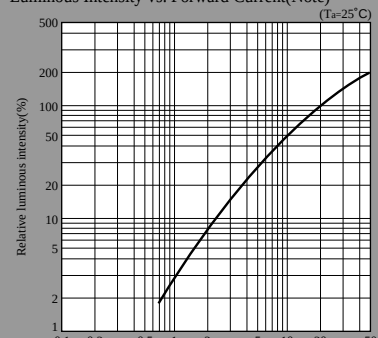
Luminous Intensity vs. Ambient Temperature(Note)



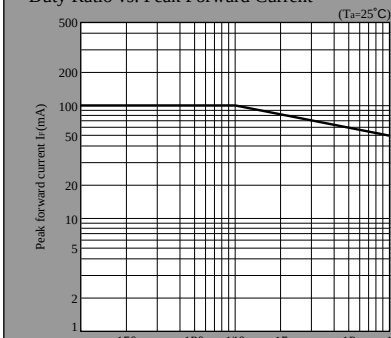
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



Duty Ratio vs. Peak Forward Current



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