GL3□□43 series
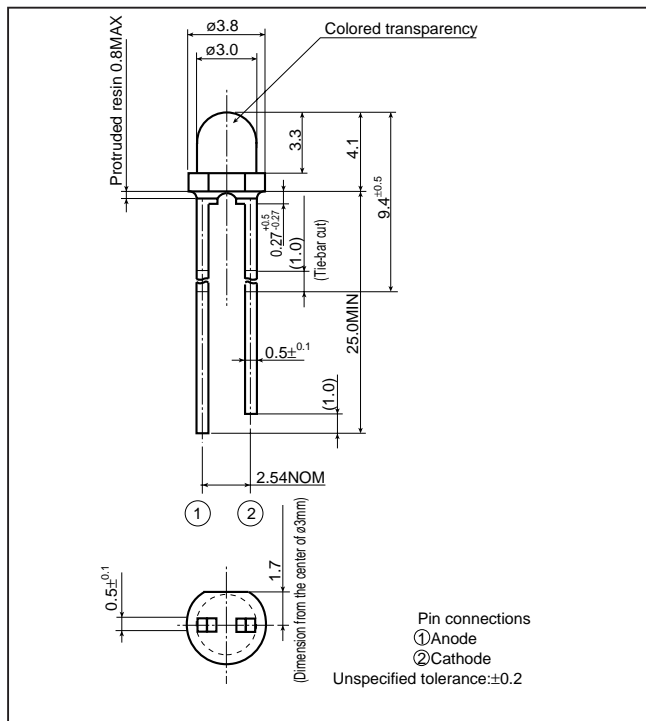
ø3mm(T-1), Cylinder(Thin Type), Colored Transparency, High-luminosity LED Lamps for Backlight
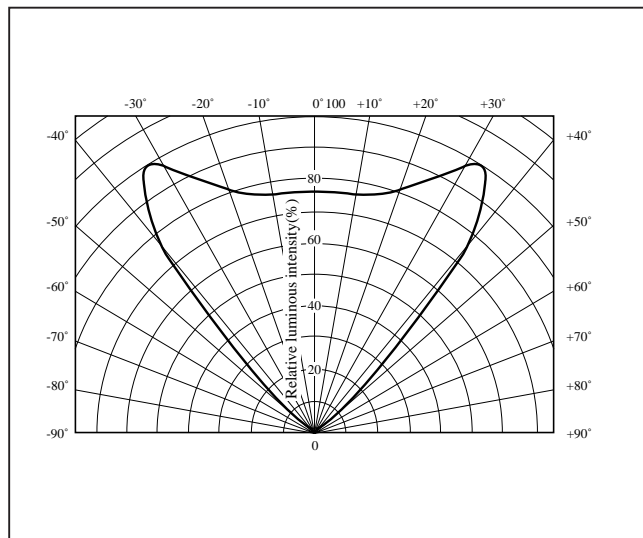
■ Outline Dimensions

(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				
GL3UR43	Red(Super-luminosity)	GaA1As on GaA1As	75	30	50[*1]	0.40	0.67	4	-25 to +85	-25 to +100	260
GL3TR43	Red(High-luminosity)	GaA1As on GaAs	110	50	300[*2]	0.67	4.00	5	-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)
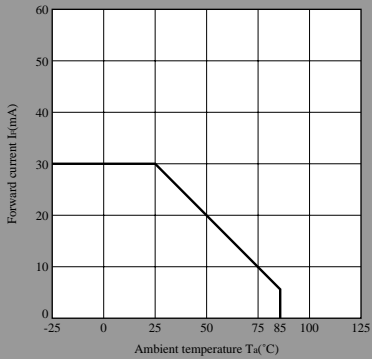
■ Electro-optical Characteristics

(Ta=25˚C)

Lens type	Model No.	Forward voltage V_F(V)		Peak emission wavelength λ_P(nm) TYP	I_F (mA)	Luminous intensity I_V(mcd) TYP	I_F (mA)	Spectrum radiation bandwidth $\Delta\lambda$(nm) TYP	I_F (mA)	Reverse current I_R(μA) MAX	V_R (V)	Terminal capacitance C_t(pF) TYP	(MHz)	Page for characteristics diagrams
		TYP	MAX											
Colored transparency	GL3UR43	1.85	2.5	660	20	100	20	20	20	100	3	25	1	→
	GL3TR43	1.75	2.2	660	20	20	20	20	20	10	4	30	1	→

LED Lamp Characteristics Diagrams

UR series

Forward Current Derating Curve
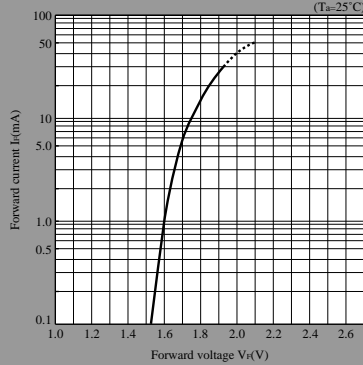
Ambient temperature Ta(°C) / Forward current I$_F$(mA)

Forward Current vs. Forward Voltage(Note)

(Ta=25°C)
Forward voltage V$_F$(V) / Forward current I$_F$(mA)

Luminous Intensity vs. Ambient Temperature(Note)

(Ta=25°C)
Ambient temperature Ta(°C) / Relative luminous intensity(%)

Peak Forward Current Derating Curve

Ambient temperature Ta(°C) / Peak forward current I$_{FM}$(mA)

Luminous Intensity vs. Forward Current(Note)

(Ta=25°C)
Forward current I$_F$(mA) / Relative luminous intensity(%)

Duty Ratio vs. Peak Forward Current

(Ta=25°C)
Duty ratio D$_R$ / Peak forward current I$_{FM}$(mA)

TR series

Forward Current Derating Curve

Ambient temperature Ta(°C) / Forward current I$_F$(mA)

Forward Current vs. Forward Voltage(Note)

(Ta=25°C)
Forward voltage V$_F$(V) / Forward current I$_F$(mA)

Luminous Intensity vs. Ambient Temperature(Note)

(I$_F$=20mA)
Ambient temperature Ta(°C) / Relative luminous intensity(%)

Peak Forward Current Derating Curve

Ambient temperature Ta(°C) / Peak forward current I$_{FM}$(mA)

Luminous Intensity vs. Forward Current(Note)

(Ta=25°C)
Forward current I$_F$(mA) / Relative luminous intensity(%)

Duty Ratio vs. Peak Forward Current

(Ta=25°C)
Duty ratio D$_R$ / Peak forward current I$_F$(mA)
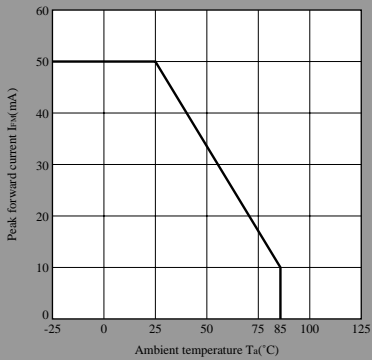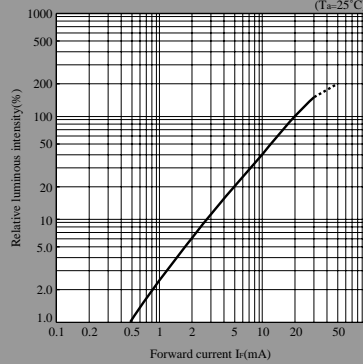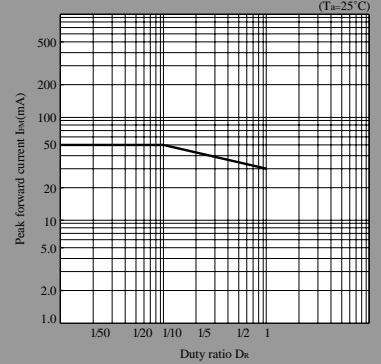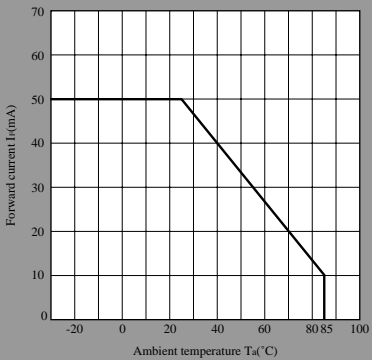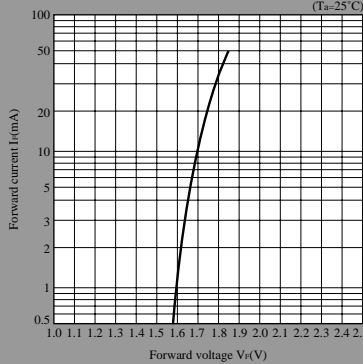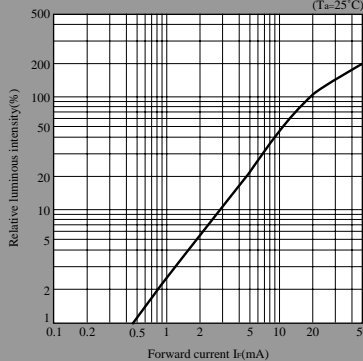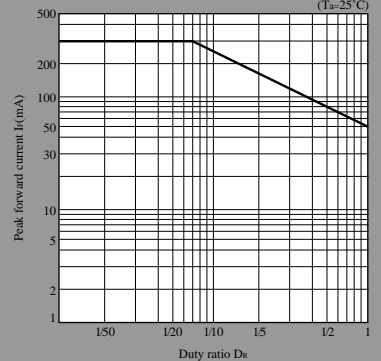
Note)Characteristics shown in diagrams are typical values. (not assurance value)