

Super-luminosity LED Lamp/High-luminosity LED Lamp

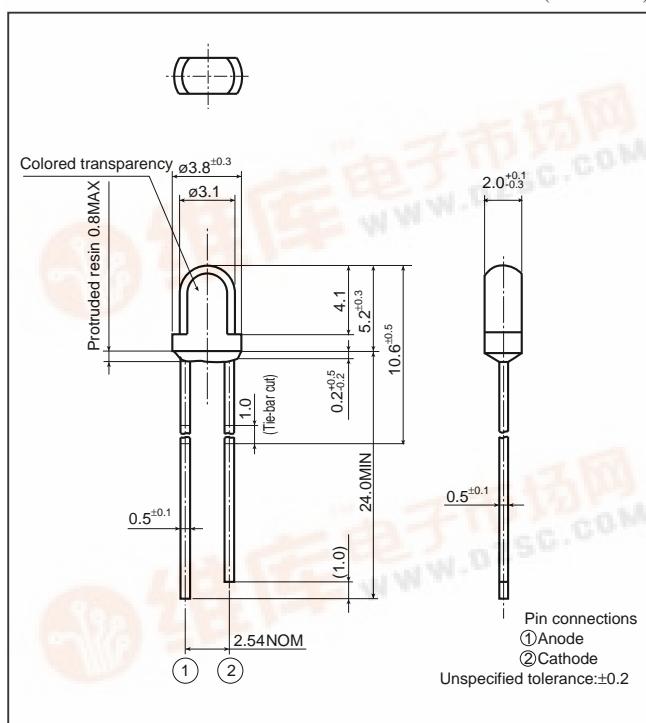
GL8□□4 series

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2.0 × 3.1mm, Arch Type, Colored Transparency, High-luminosity LED Lamp 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 (mA)	Derating factor (mA/°C)		Reverse voltage Vr (V)	Operating temperature Topr (°C)	Storage temperature Tstg (°C)	Soldering temperature Tsol ^{*3} (°C)
						DC	Pulse				
GL8UR4	Red(Super-luminosity)	GaAlAs on GaAlAs	75	30	50 ^{*1}	0.40	0.67	4	-25 to +85	-25 to +100	260
GL8TR4	Red(High-luminosity)	GaAlAs 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)

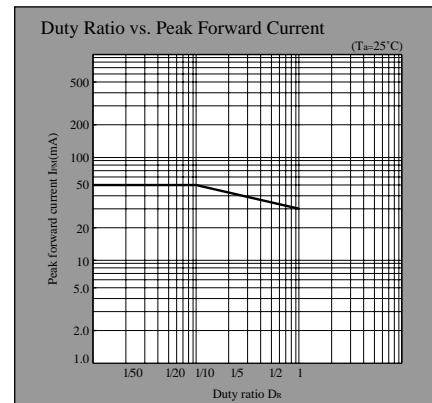
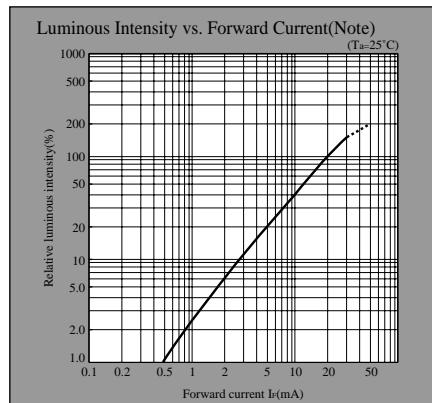
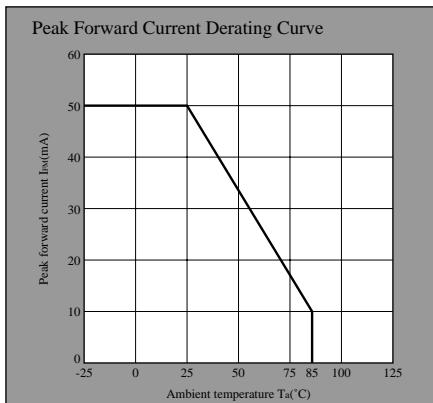
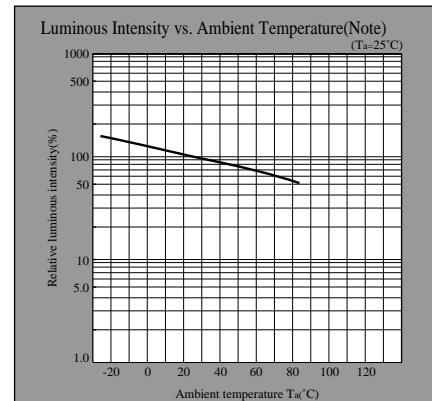
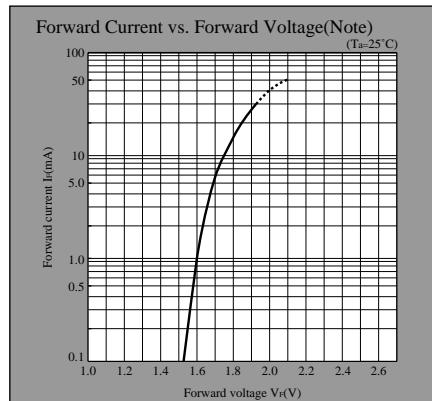
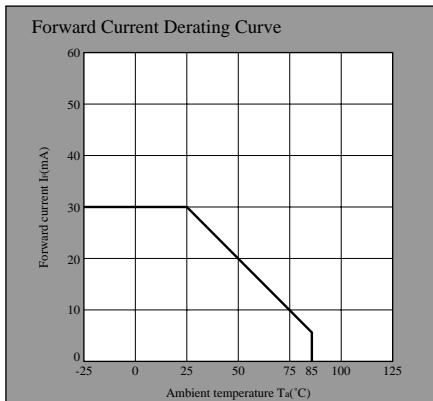
■ Electro-optical Characteristics

(Ta=25°C)

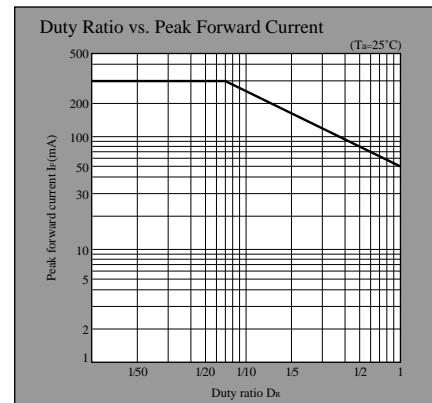
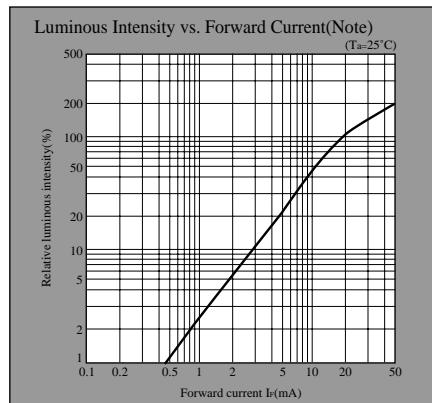
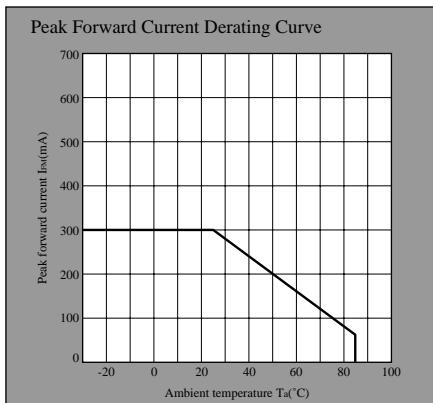
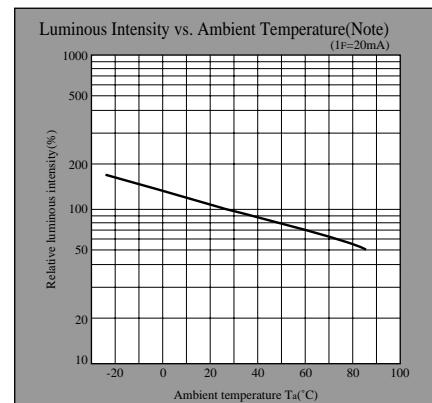
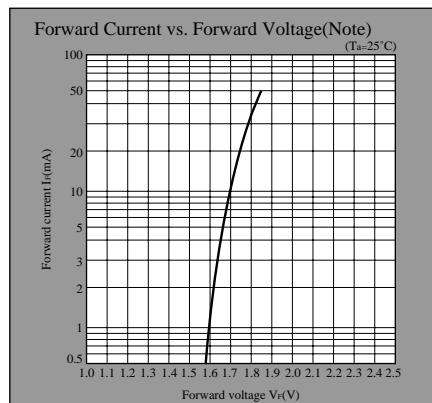
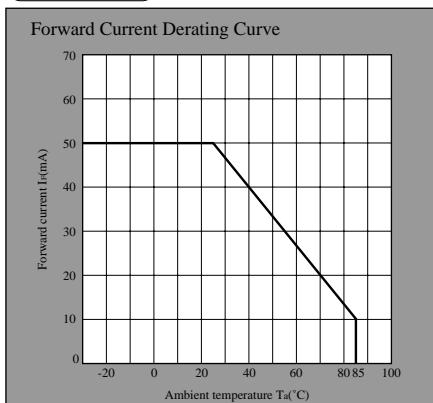
Lens type	Model No.	Forward voltage Vf(V)		Peak emission wavelength λp(nm)		Luminous intensity Iv(mcd)		Spectrum radiation bandwidth Δλ(nm)		Reverse current Ir(μA)		Terminal capacitance Ct(pF)	Page for characteristics diagrams
		TYP	MAX	TYP	IF (mA)	TYP	IF (mA)	TYP	IF (mA)	MAX	Vr (V)		
Colored transparency	GL8UR4	1.85	2.5	660	20	150	20	20	20	100	3	25	1
	GL8TR4	1.75	2.2	660	20	40	20	20	20	10	4	30	1

LED Lamp Characteristics Diagrams

UR series



TR series



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

(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.

(Note) • Duty ratio is the ratio of the time the lamp is on to the total time (1/100s). For example, a 1/10 duty ratio means the lamp is on for 10ms and off for 990ms.