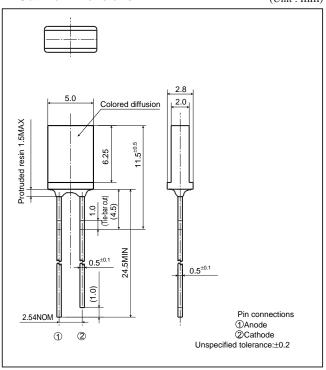
# GL8□□21 series

# 2.0 × 5.0mm, Rectangle Type, Colored Diffusion, High-luminosity LED Lamps for Indicator

#### **■** Outline Dimensions

(Unit: mm)



#### ■ Absolute Maximum Ratings

 $(T_a=25^{\circ}C)$ 

Model No.	Radiation color	Radiation material	Power dissipation P (mW)	Forward current  IF  (mA)	Peak forward current  IFM  (mA)	Derating factor (mA/°C)  DC Pulse		Reverse voltage V <sub>R</sub> (V)	Operating temperature  Topr (°C)	Storage temperature  Tstg (°C)	Soldering temperature $T_{sol}*^3$ (°C)
GL8UR21	Red(Super-luminosity)	GaA1As on GaA1As	75	30	50*1	0.40	0.67	4	-25 to +85	-25 to +100	260
GL8TR21	Red(High-luminosity)	GaA1As on GaAs	110	50	300*2	0.67	4.00	5	-25 to +85	-25 to +100	260

<sup>\*1</sup> Duty ratio=1/10, Pulse width=0.1ms

### **■** Electro-optical Characteristics

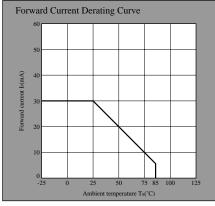
(Ta=25°C)

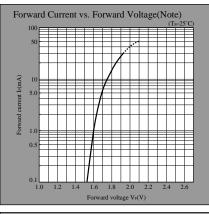
	(12-25 C													
Lens type	Model No.	Forward voltage V <sub>F</sub> (V)		Peak emission wavelength		Luminous intensity		Spectrum radiation bandwidth		Reverse current		Terminal capacitance		Page for
				$\lambda_{P}(nm)$	IF	Iv(mcd)	IF	$\Delta\lambda(nm)$	IF	Ir(µA)	VR	C <sub>t</sub> (pF)	(MII.)	characteristics
		TYP	MAX	TYP	(mA)	TYP	(mA)	TYP	(mA)	MAX	(V)	TYP	(MHz)	diagrams
Colored diffusion	GL8UR21	1.85	2.5	660	20	16.0	20	20	20	100	3	25	1	$\rightarrow$
	GL8TR21	1.75	2.2	660	20	4.0	20	20	20	10	4	30	1	$\rightarrow$

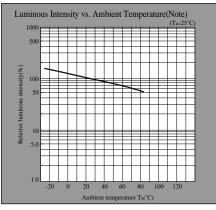
<sup>\*2</sup> Duty ratio=1/16, Pulse width≤1ms

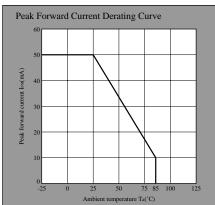
<sup>\*3 5</sup>s or less(At the position of 1.6mm or more from the bottom face of resin package)

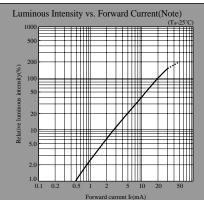
#### UR series

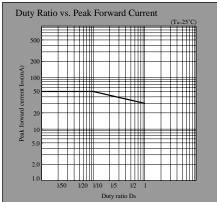




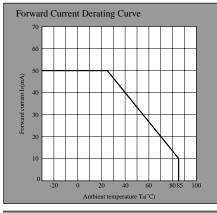


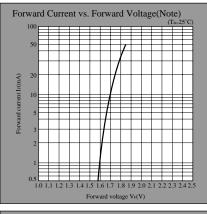


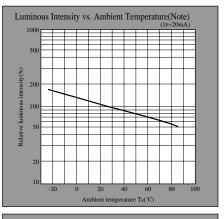


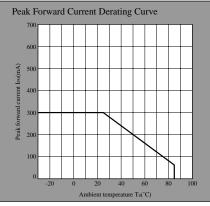


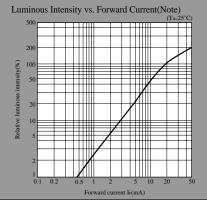
## TR series

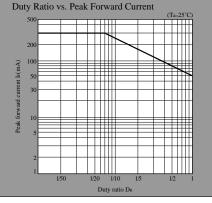












Note) Characteristics shown in diagrams are typical values. (not assurance value)

(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.