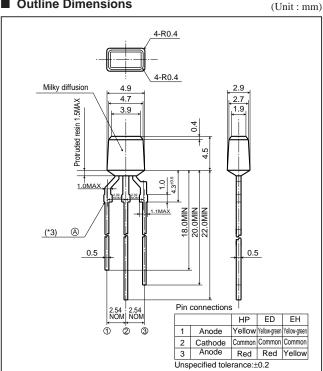
# GL8□□5 series

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

#### ■ Outline Dimensions



#### ■ Absolute Maximum Ratings

(Ta=25°C)

Model No.	Radiation color	Radiation material	Power dissipation Forward curren  P*1 IF		I <sub>FM</sub> *2	Derating factor (mA/°C)		VR	$T_{ m opr}$	Storage temperature  T <sub>stg</sub>	Soldering temperature T <sub>sol</sub> *3
			(mW)	(mA)	(mA)	DC	Pulse	(V)	(°C)	(°C)	(°C)
GL8ED5	Yellow-green	GaP	84	30	50	0.40	0.67	5	25 +- + 95	-25 to +100	260
	Red	GaAsP on GaP	84	30	50	0.40	0.67	5	-25 to +85		
GL8EH5	Yellow-green	GaP	84	30	50	0.40	0.67	5	25.4 . 95	-25 to +100	260
	Yellow	GaAsP on GaP	84	30	50	0.40	0.67	5	-25 to +85		
GL8HP5	Yellow	GaAsP on GaP	50	20	50	0.27	0.67	5	25 to 195	25 +- +100	260
	Red	GaP	35	15	50	0.27	0.67	5	-25 to +85	-25 to +100	260

<sup>\*1</sup> 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.

### ■ Electro-optical Characteristics

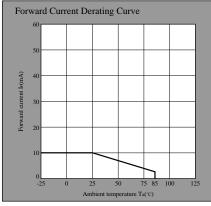
 $(T_a=25^{\circ}C)$ 

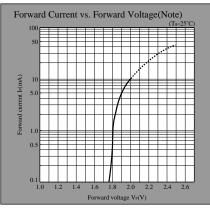
Lens type	Model No.	Radiation color	Forward voltage V <sub>F</sub> (V)		Peak emission wavelength		Luminous intensity		Spectrum radiation bandwidth		Reverse current		Terminal capacitance		Page for
					$\lambda_p(nm)$	$\lambda_p(nm)$ If		Iv(mcd) IF	$\Delta\lambda(nm)$ If		Ir(µA) Vr			characteristics	
			TYP	MAX	TYP	(mA)	TYP	(mA)	TYP	(mA)	MAX	(V)	TYP	(MHz)	diagrams
Milky diffusion	GL8ED5	Yellow-green	2.1	2.8	565	20	10.0	20	30	20	10	4	35	1	$\rightarrow$
		Red	2.0	2.8	635	20	6.5	20	35	20	10	4	20	1	$\rightarrow$
	1721 8445 1	Yellow-green	2.1	2.8	565	20	15.0	20	30	20	10	4	35	1	$\rightarrow$
		Yellow	2.0	2.8	585	20	13.0	20	35	20	10	4	30	1	$\rightarrow$
	1G18HP5 F	Yellow	1.9	2.5	585	10	3.0	10	30	10	10	4	35	1	$\rightarrow$
		Red	1.9	2.3	695	10	1.5	10	100	10	10	4	55	1	$\rightarrow$

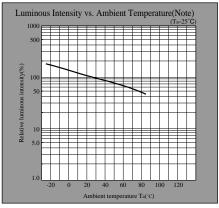
<sup>\*2</sup> Duty ratio=1/10, Pulse width=0.1ms

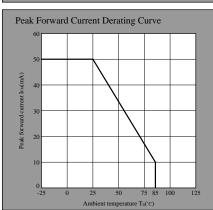
<sup>\*3 5</sup>s or less(At the position of 1.6mm or more from the bottom face of resin package)

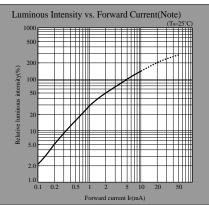
#### PR series

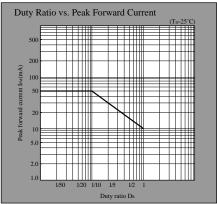




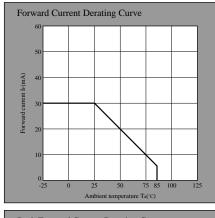


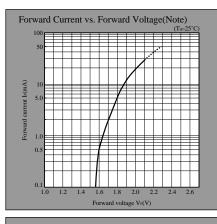


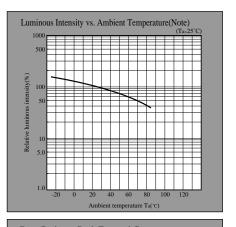


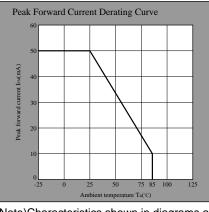


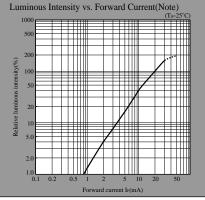
## HD series

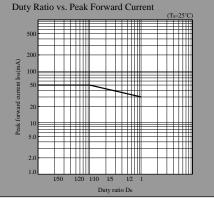








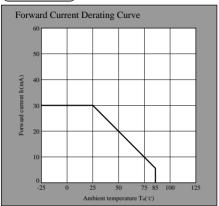


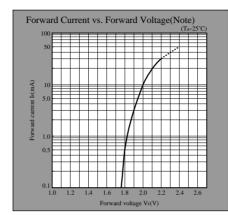


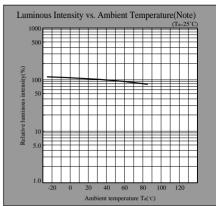
Note) Characteristics shown in diagrams are typical values. (not assurance value)

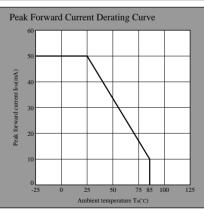
Notice) • In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.

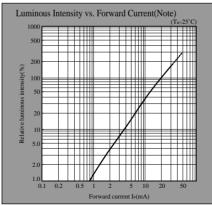
#### EG series

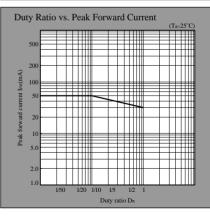






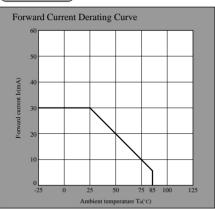


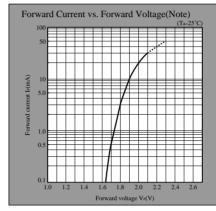


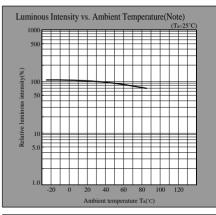


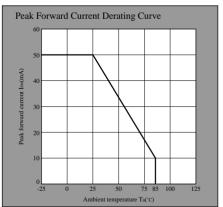
Note) Characteristics shown in diagrams are typical values. (not assurance value)

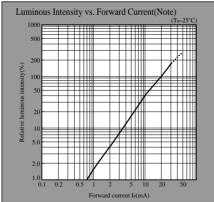
#### HY series

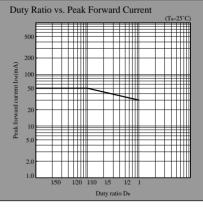












Note)Characteristics shown in diagrams are typical values. (not assurance value)