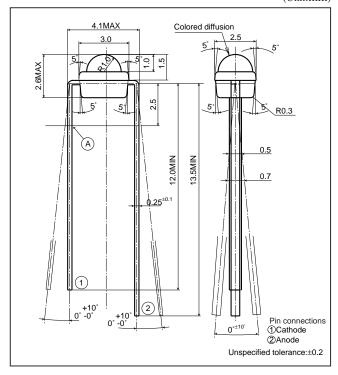
GL1□□111 series

■ Outline Dimensions

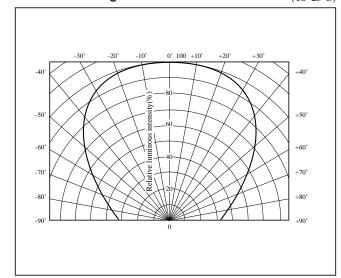
(Unit:mm)



ø2mm, Forming Type, Colored **Diffusion, Compact LED Lamp for** Backlight/Indicator

■ Radiation Diagram

(Ta=25°C)



■ Absolute Maximum Ratings

 $(T_3=25^{\circ}C)$

											(Ta=23 C)
Model No.	Radiation color	Radiation material	Power dissipation	Forward current IF	Peak forward current IFM*1	Derating factor (mA/°C)		Reverse voltage V _R	Operating temperature Topr	Storage temperature $T_{ m stg}$	Soldering temperature Tsol*2
			(mW)	(mA)	(mA)	DC	Pulse	(V)	(°C)	(°C)	(°C)
GL1PR111	Red	GaP	23	10	50	0.13	0.67	5	-25 to +85	-25 to +100	260
GL1HD111	Red	GaAsP on GaP	85	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL1HS111	Sunset orange	GaAsP on GaP	85	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL1HY111	Yellow	GaAsP on GaP	50	20	50	0.27	0.67	5	-25 to +85	-25 to +100	260
GL1EG111	Yellow-green	GaP	50	20	50	0.27	0.67	5	-25 to +85	-25 to +100	260

^{*1} Duty ratio=1/10, Pulse width=0.1ms

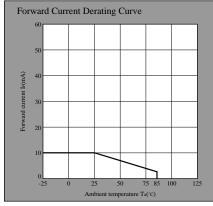
■ Electro-optical Characteristics

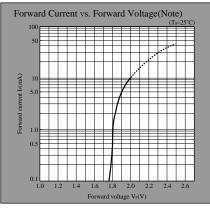
(Ta=25°C)

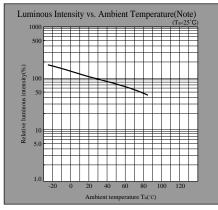
Lens type	Model No.	Forward voltage V _F (V)		Peak emission wavelength		Luminous intensity		Spectrum radiation bandwidth		Reverse current		Terminal capacitance		Page for
				$\lambda_p(nm)$	IF	Iv(mcd)	I_{F}	Δλ(nm)	I_{F}	Ir(µA)	VR	C _t (pF)	0.577	characteristics
		TYP	MAX	TYP	(mA)	TYP	(mA)	TYP	(mA)	MAX	(V)	TYP	(MHz)	diagrams
Colored diffusion	GL1PR111	1.9	2.3	695	5	2.6	5	100	5	10	4	55	1	\rightarrow
	GL1HD111	2.0	2.8	635	20	8.8	20	35	20	10	4	20	1	\rightarrow
	GL1HS111	2.0	2.8	610	20	14.4	20	35	20	10	4	15	1	\rightarrow
	GL1HY111	1.9	2.5	585	10	4.5	10	30	10	10	4	35	1	\rightarrow
	GL1EG111	1.95	2.8	565	10	7.0	10	30	10	10	4	35	1	\rightarrow

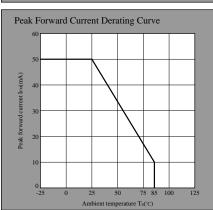
^{*2} Below the Aportion of outline drawing

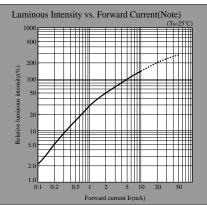
PR series

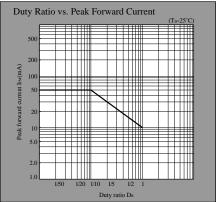




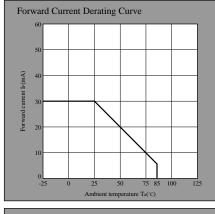


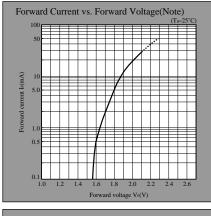


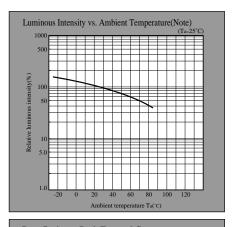


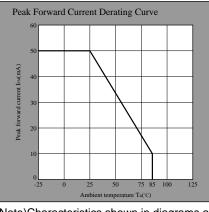


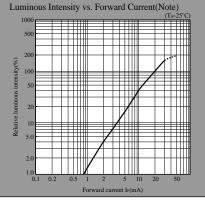
HD series

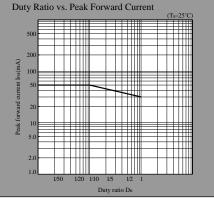








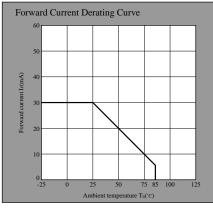


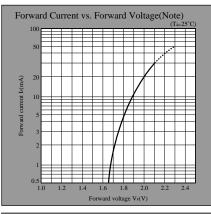


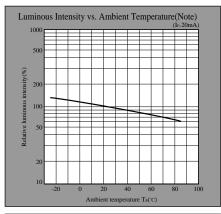
Note) Characteristics shown in diagrams are typical values. (not assurance value)

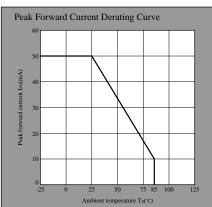
Notice) • In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP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

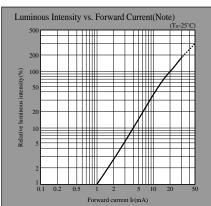
HS series

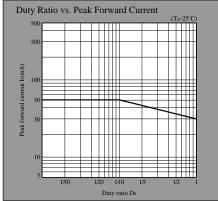




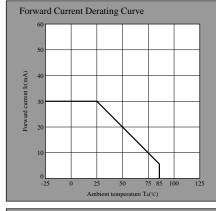


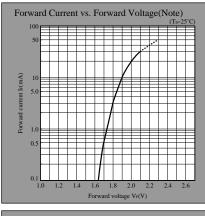


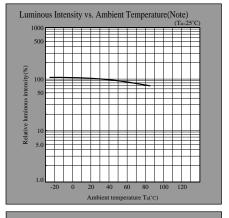


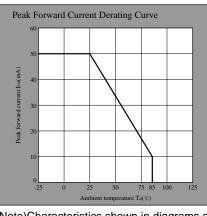


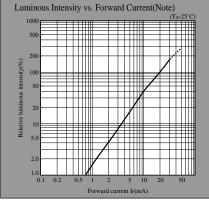
HY series

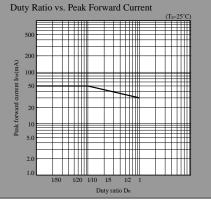








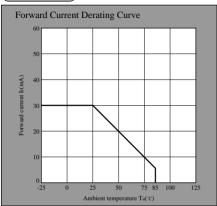


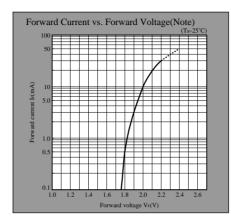


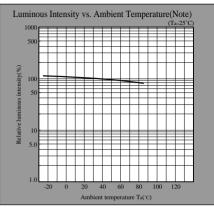
Note) Characteristics shown in diagrams are typical values. (not assurance value)

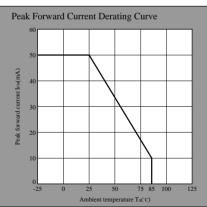
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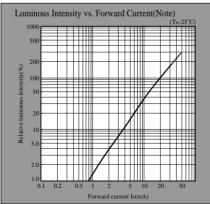
EG series

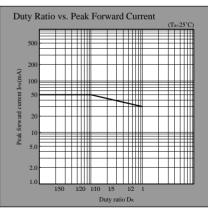












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