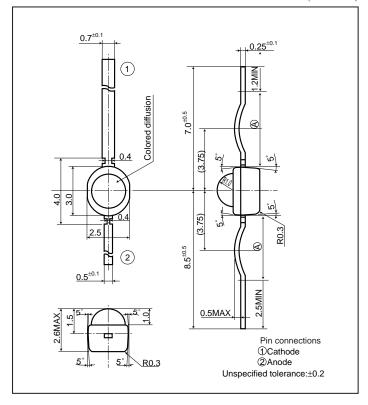
GL1□□135 series

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

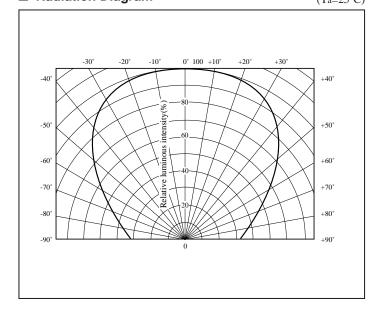
■ Outline Dimensions

(Unit:mm)



■ Radiation Diagram

(Ta=25°C)



■ Absolute Maximum Ratings

(Ta=25°C)

											(1a-25 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 Tstg	Soldering temperature Tsol*2
			(mW)	(mA)	(mA)	DC	Pulse	(V)	(°C)	(°C)	(°C)
GL1PR135	Red	GaP	23	10	50	0.13	0.67	5	-25 to +85	-25 to +100	260
GL1HD135	Red	GaAsP on GaP	85	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL1HS135	Sunset orange	GaAsP on GaP	85	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL1HY135	Yellow	GaAsP on GaP	50	20	50	0.27	0.67	5	-25 to +85	-25 to +100	260
GL1EG135	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

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

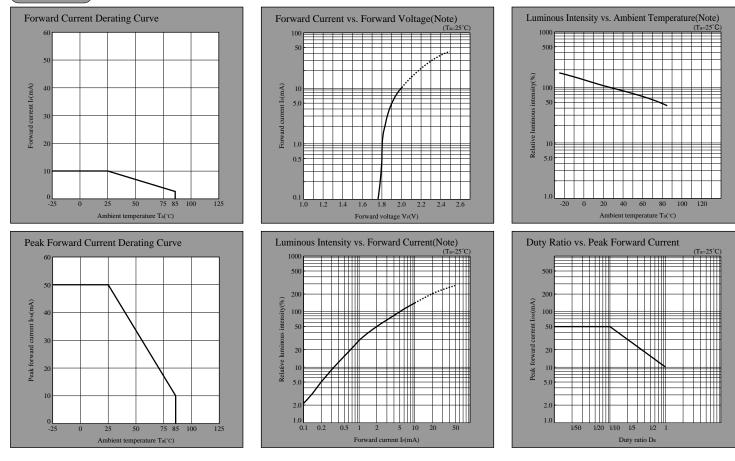
Lens type	Model No.	Forward voltage V _F (V)		Peak emission wavelength		Luminous intensity		Spectrum radiation bandwidth		Reverse current		Terminal capacitance		Page for
				$\lambda_p(nm)$	IF	Iv(mcd)	IF	Δλ(nm)	IF	Ir(µA)	V_R	C _t (pF)	0.07	characteristics
		TYP	MAX	TYP	(mA)	TYP	(mA)	TYP	(mA)	MAX	(V)	TYP	(MHz)	diagrams
Colored diffusion	GL1PR135	1.9	2.3	695	5	2.6	5	100	5	10	4	55	1	\rightarrow
	GL1HD135	2.0	2.8	635	20	8.8	20	35	20	10	4	20	1	\rightarrow
	GL1HS135	2.0	2.8	610	20	14.4	20	35	20	10	4	15	1	\rightarrow
	GL1HY135	1.9	2.5	585	10	4.5	10	30	10	10	4	35	1	\rightarrow
	GL1EG135	1.95	2.5	565	10	7.0	10	30	10	10	4	35	1	\rightarrow

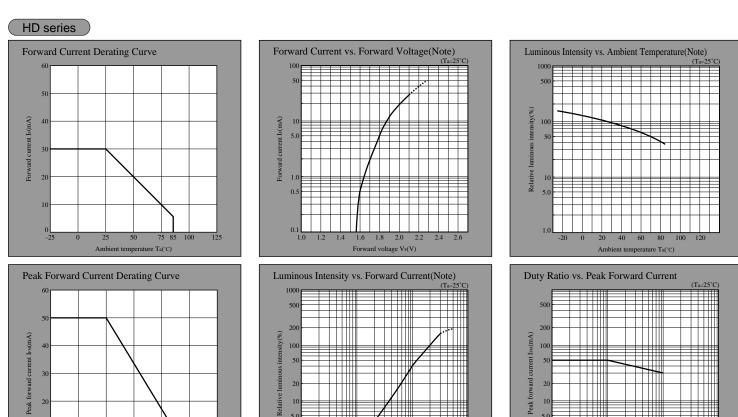
 ⁽Notice)
 In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP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

^{*2} Below the A portion of outline drawing

⁽Internet) • Data for sharp's optoelectronic/power device is provided for internet.(Address http://www.sharp.co.jp/ecg/)

PR series





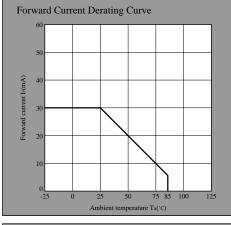
Note)Characteristics shown in diagrams are typical values. (not assurance value)

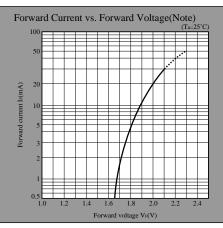
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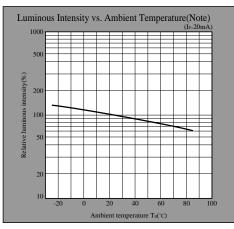
Forward current I_F(mA)

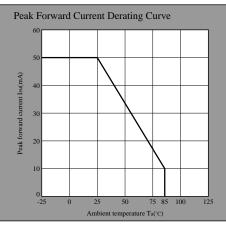
Duty ratio DR

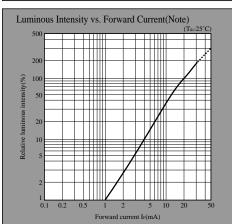
HS series

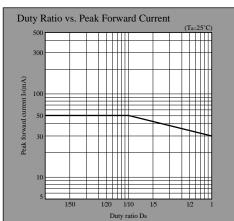




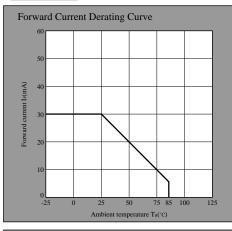


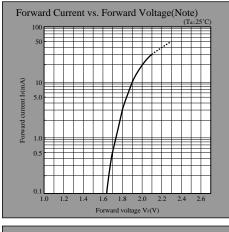


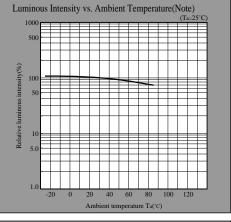


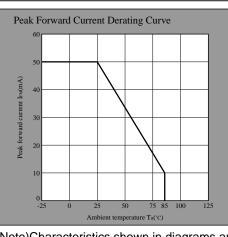


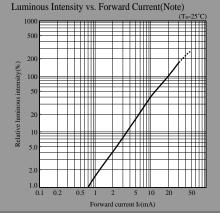
HY series

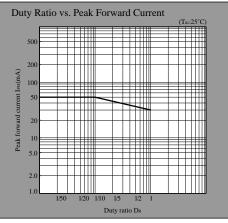








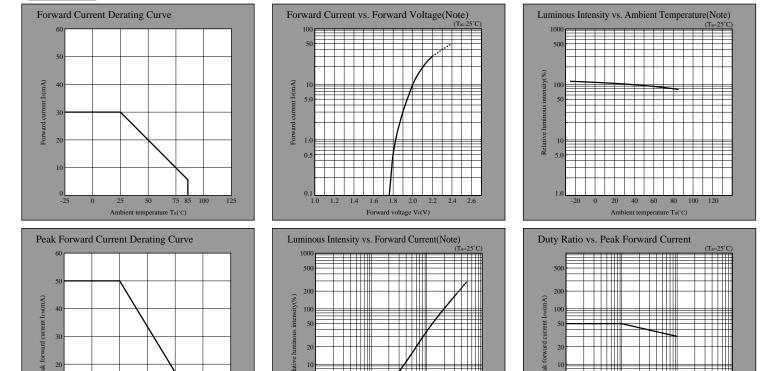




Note) Characteristics shown in diagrams are typical values. (not assurance value)

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EG series



1/20 1/10

Duty ratio D_R

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

Ambient temperature Ta(°C)

5.0