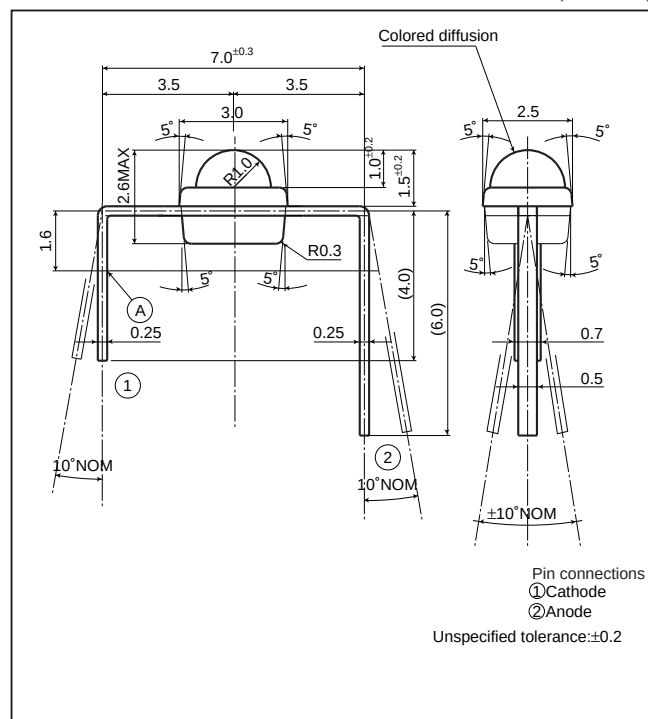
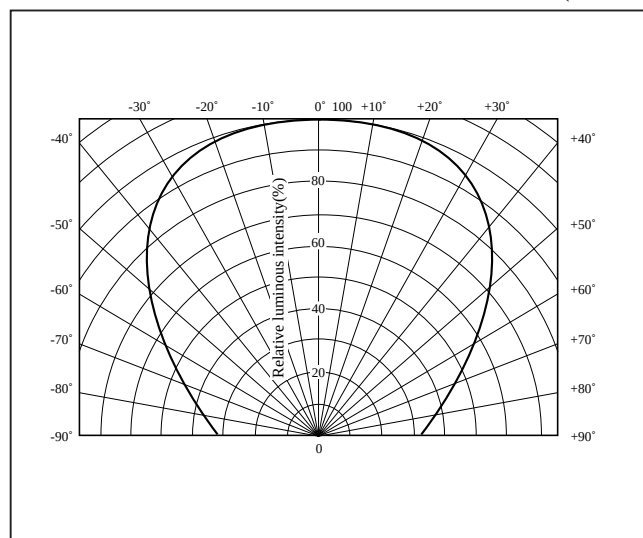


**ø2mm, Forming Type, Colored
Diffusion, Compact LED Lamp for
Backlight/Indicator**

(Unit:mm)



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



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

Model No.	Radiation color	Radiation material	Power dissipation P (mW)	Forward current I _F (mA)	Peak forward current I _{FM} ^{*1} (mA)	Derating factor (mA/°C)		Reverse voltage V _R (V)	Operating temperature T _{opr} (°C)	Storage temperature T _{stg} (°C)	Soldering temperature T _{sol} ^{*2} (°C)
						DC	Pulse				
GL1PR112	Red	GaP	23	10	50	0.13	0.67	5	-25 to +85	-25 to +100	260
GL1HD112	Red	GaAsP on GaP	85	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL1HS112	Sunset orange	GaAsP on GaP	85	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL1HY112	Yellow	GaAsP on GaP	50	20	50	0.27	0.67	5	-25 to +85	-25 to +100	260
GL1EG112	Yellow-green	GaP	50	20	50	0.27	0.67	5	-25 to +85	-25 to +100	260

*2 Below the (A) portion of outline drawing

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

Lens type	Model No.	Forward voltage V _F (V)		Peak emission wavelength		Luminous intensity		Spectrum radiation bandwidth		Reverse current		Terminal capacitance		Page for characteristics diagrams
		TYP	MAX	λ _p (nm)	I _F	I _v (mcd)	I _F	Δλ(nm)	I _F	I _R (μA)	V _R	C _t (pF)		
				TYP	(mA)	TYP	(mA)	TYP	(mA)	TYP	(mA)	MAX	(V)	
Colored diffusion	GL1PR112	1.9	2.3	695	5	2.6	5	100	5	10	4	55	1	→
	GL1HD112	2.0	2.8	635	20	8.8	20	35	20	10	4	20	1	→
	GL1HS112	2.0	2.8	610	20	14.0	20	35	20	10	4	15	1	→
	GL1HY112	1.9	2.5	585	10	4.5	10	30	10	10	4	35	1	→
	GL1EG112	1.95	2.5	565	10	7.0	10	30	10	10	4	35	1	→

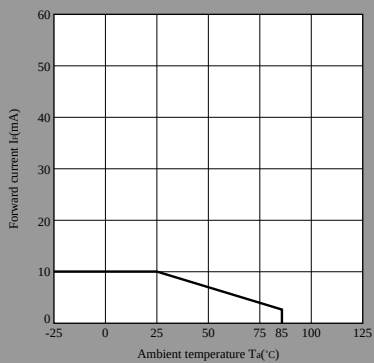
(Notice) ● In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP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

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

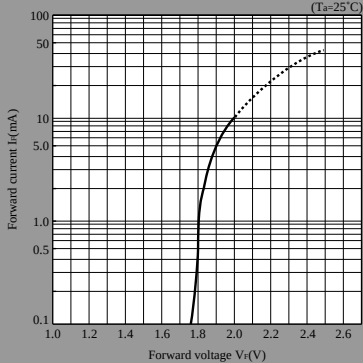
LED Lamp Characteristics Diagrams

PR series

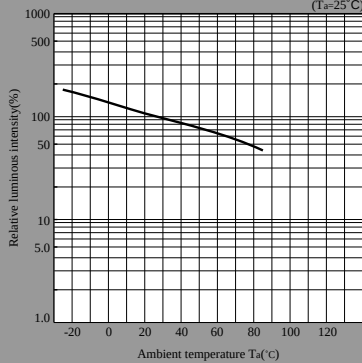
Forward Current Derating Curve



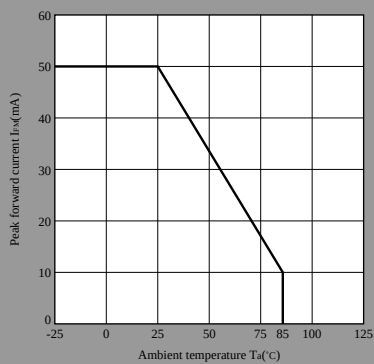
Forward Current vs. Forward Voltage(Note)



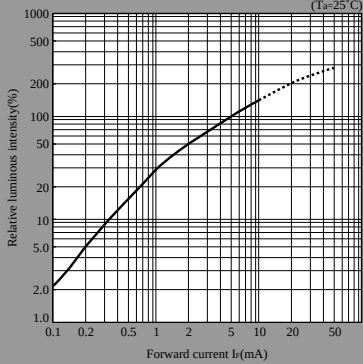
Luminous Intensity vs. Ambient Temperature(Note)



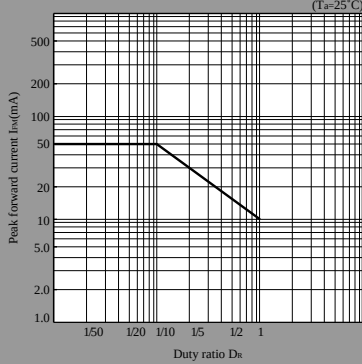
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)

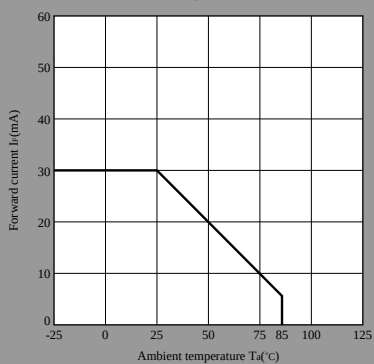


Duty Ratio vs. Peak Forward Current

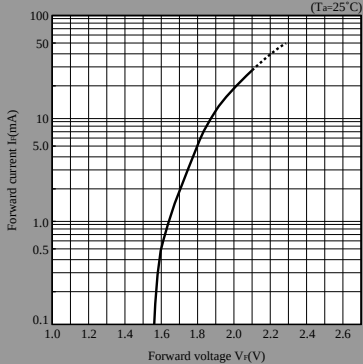


HD series

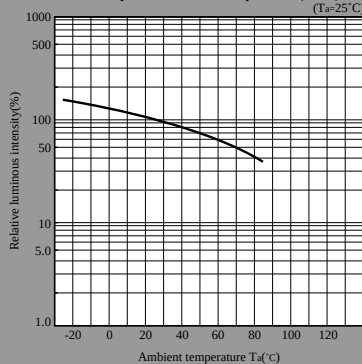
Forward Current Derating Curve



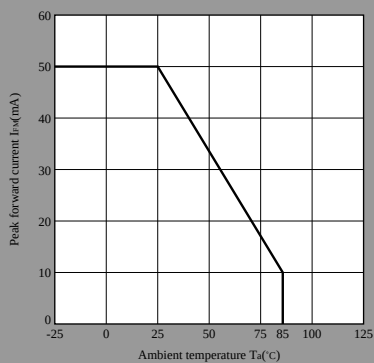
Forward Current vs. Forward Voltage(Note)



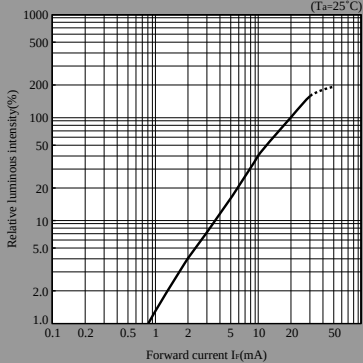
Luminous Intensity vs. Ambient Temperature(Note)



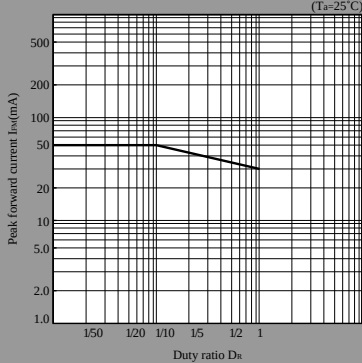
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



Duty Ratio vs. Peak Forward Current

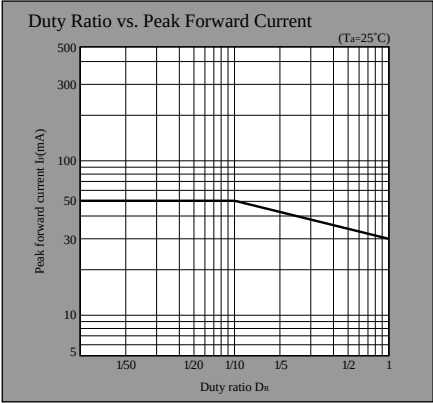
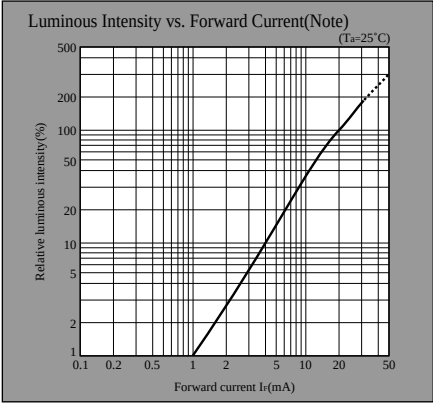
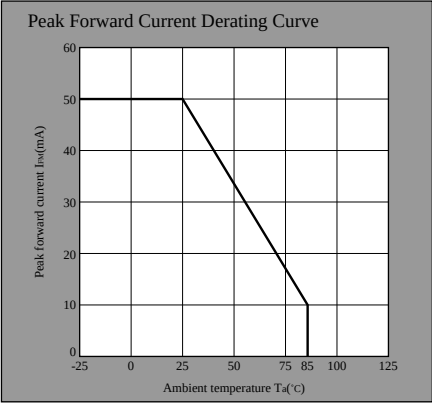
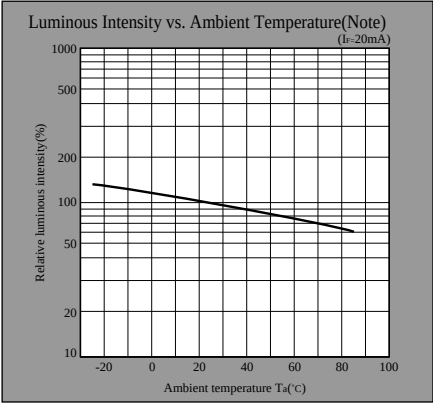
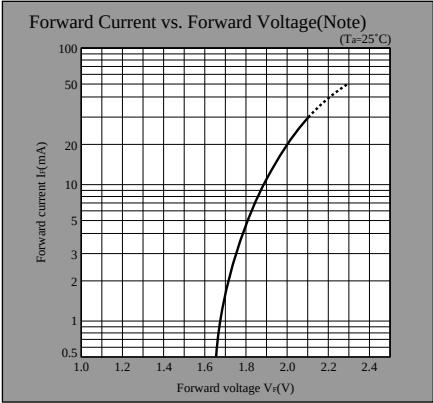
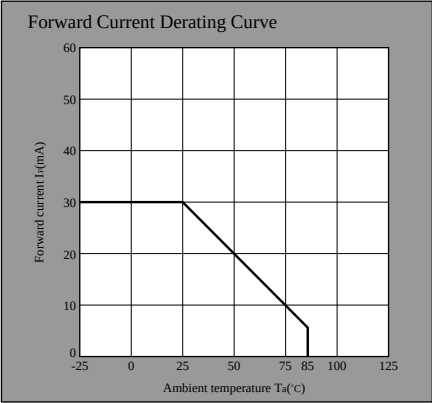


Note) Characteristics shown in diagrams are typical values. (not assurance value)

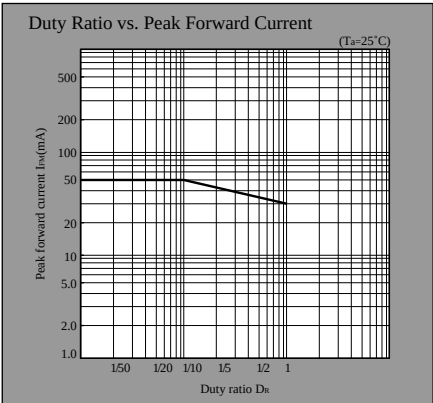
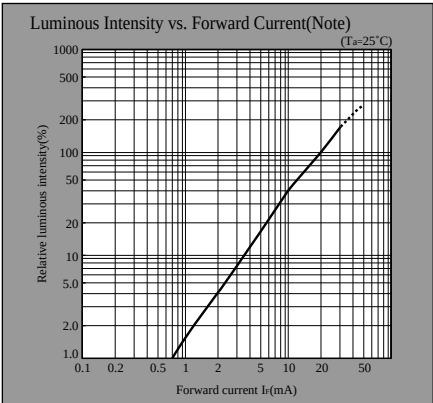
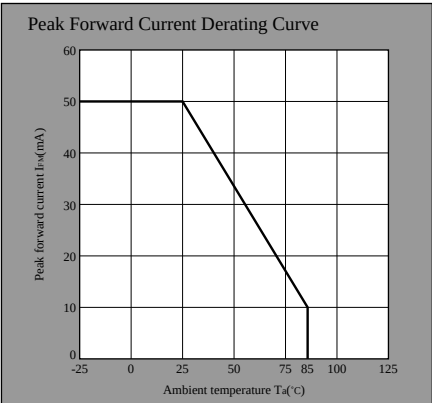
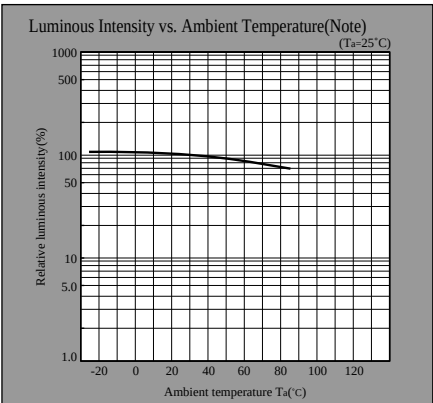
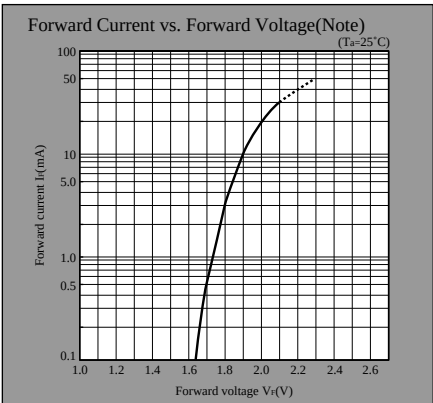
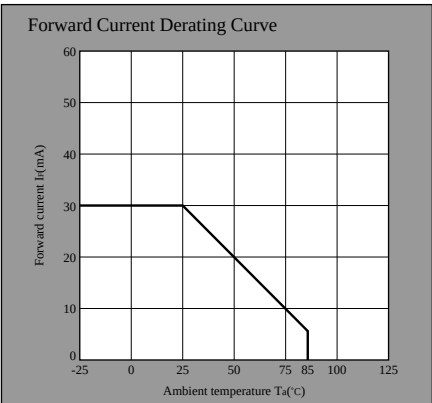
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LED Lamp Characteristics Diagrams

HS series



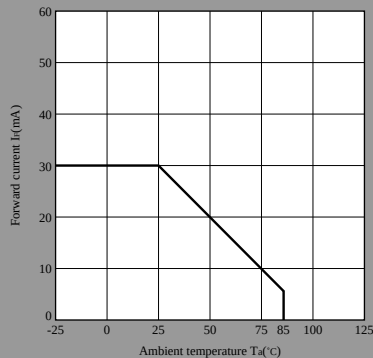
HY series



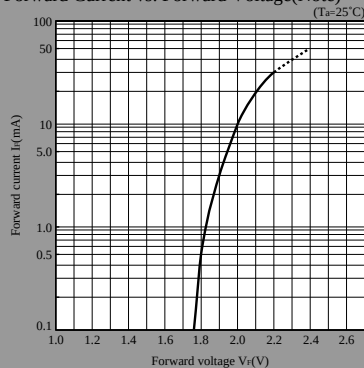
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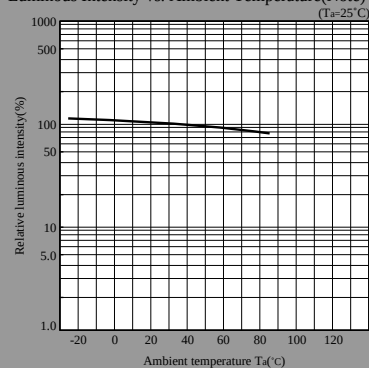
Forward Current Derating Curve



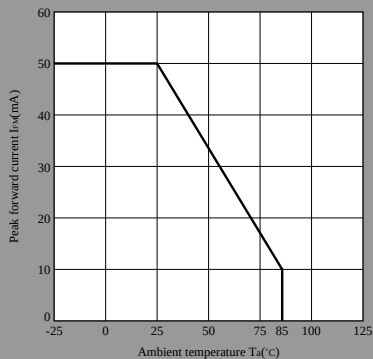
Forward Current vs. Forward Voltage(Note)



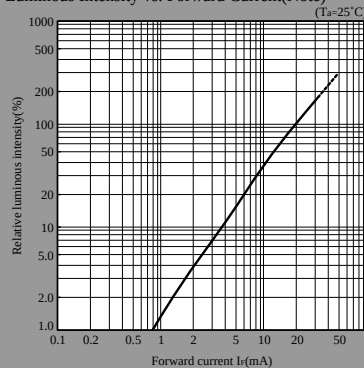
Luminous Intensity vs. Ambient Temperature(Note)



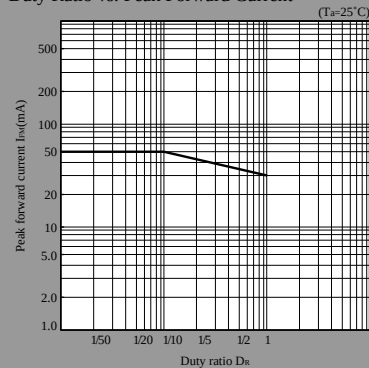
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



Duty Ratio vs. Peak Forward Current



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