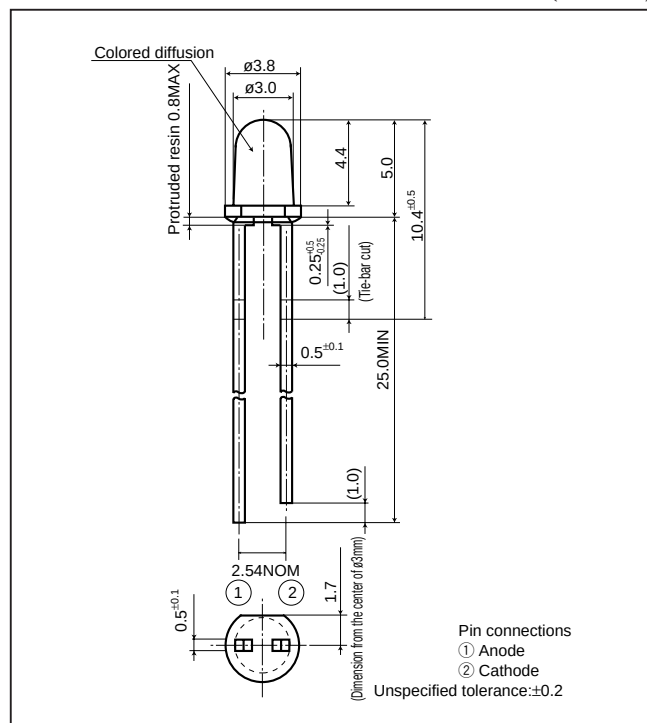
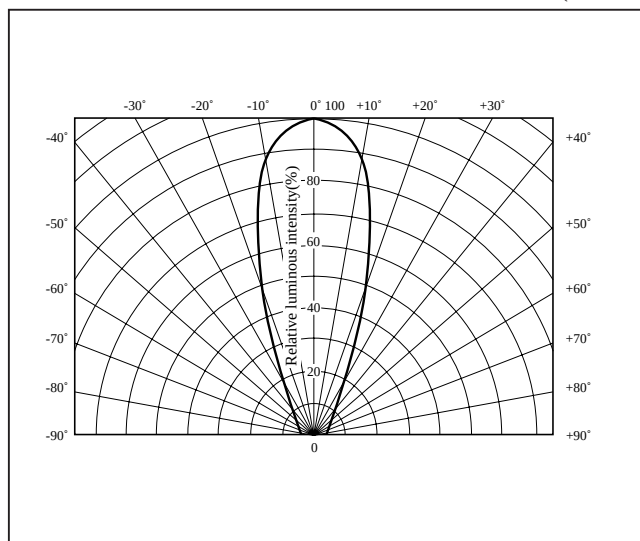


**ø3mm(T-1), Cylinder Type,
Colored Diffusion LED
Lamps for Indicator**

(Unit : mm)



(T_a=25°C)

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

Model No.	Emitting color	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 _{sg} (°C)	Soldering temperature T _{sol} ^{*2} (°C)
						DC	Pulse				
GL3PR8	Red	GaP	23	10	50	0.13	0.67	5	-25 to +85	-25 to +100	260
GL3HD8	Red	GaAsP on GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL3HS8	Sunset orange	GaAsP on GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL3HY8	Yellow	GaAsP on GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL3EG8	Yellow-green	GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL3KG8	Green	GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260

*2 5s or less(At the position of 1.6mm or more from the bottom face of resin package)

(T_a=25°C)

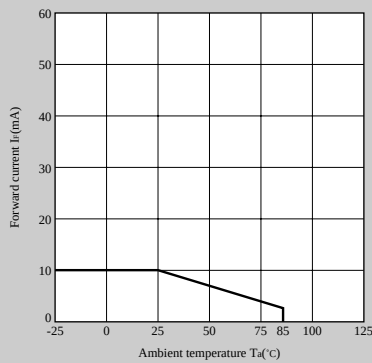
Lens type	Model No.	Forward voltage V _F (V)		Peak emission wavelength		Luminous intensity		Spectrum radiation bandwidth		Reverse current		Terminal capacitance		Page for characteristics diagrams
		TYP	MAX	λ _p (nm) TYP	I _F (mA)	I _v (mcd) TYP	I _F (mA)	Δλ(nm) TYP	I _F (mA)	I _R (μA) MAX	V _R (V)	C _t (pF) TYP	(MHz)	
Colored diffusion	GL3PR8	1.9	2.3	695	5	8.0	5	100	5	10	4	55	1	100
	GL3HD8	2.0	2.8	635	20	40	20	35	20	10	4	20	1	100
	GL3HS8	2.0	2.8	610	20	60	20	35	20	10	4	15	1	101
	GL3HY8	2.0	2.8	585	20	55	20	30	20	10	4	35	1	101
	GL3EG8	2.1	2.8	565	20	60	20	30	20	10	4	35	1	102
	GL3KG8	2.1	2.8	555	20	30	20	25	20	10	4	40	1	102

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	Internet address for Electronic Components Group http://sharp-world.com/ecg/

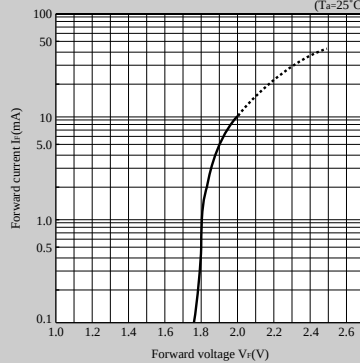
Characteristics Diagrams

PR,P series

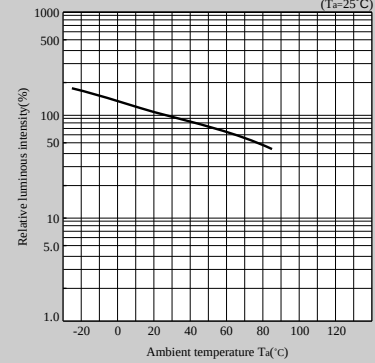
Forward Current Derating Curve



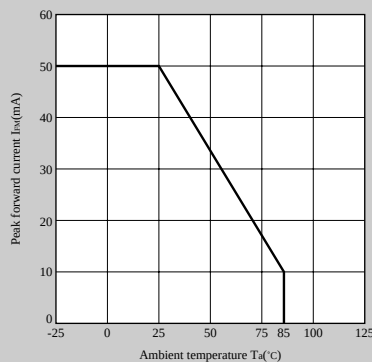
Forward Current vs. Forward Voltage(Note)



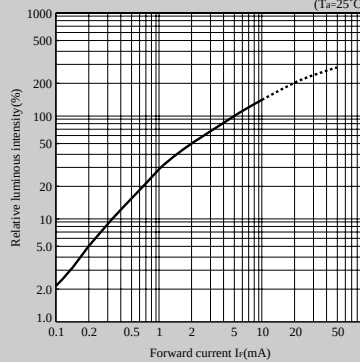
Luminous Intensity vs. Ambient Temperature(Note)



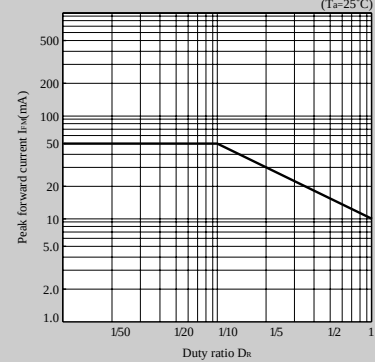
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)

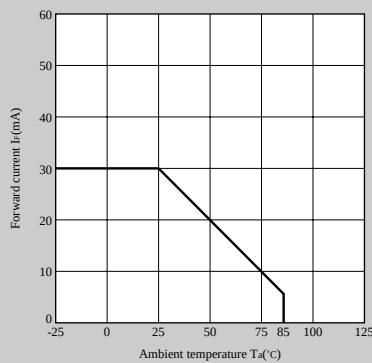


Duty Ratio vs. Peak Forward Current

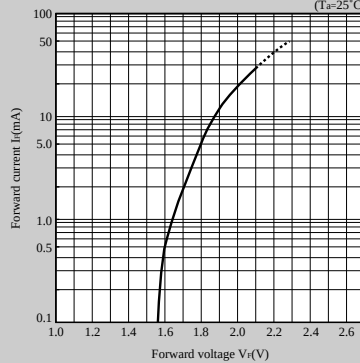


HD,D series

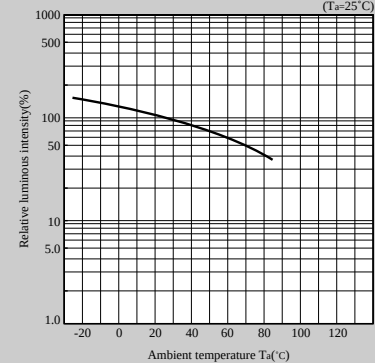
Forward Current Derating Curve



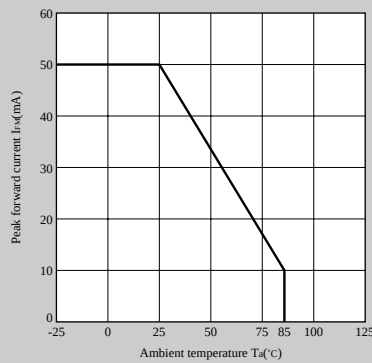
Forward Current vs. Forward Voltage(Note)



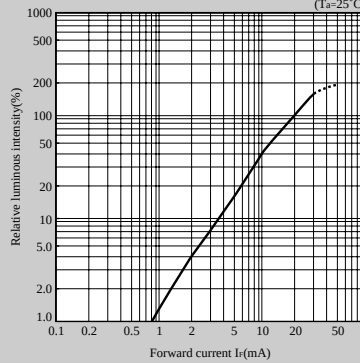
Luminous Intensity vs. Ambient Temperature(Note)



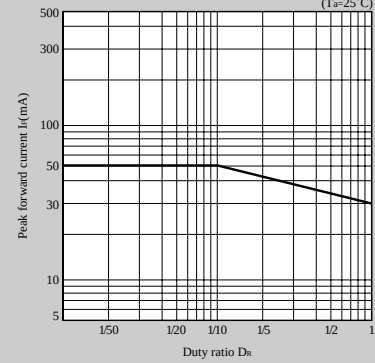
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



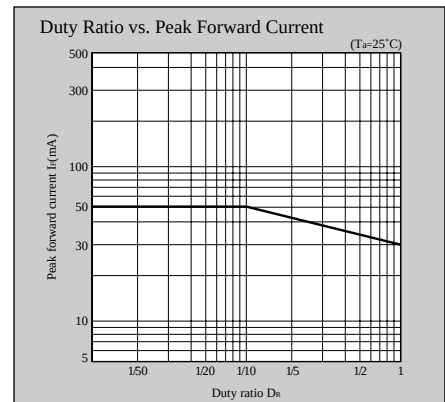
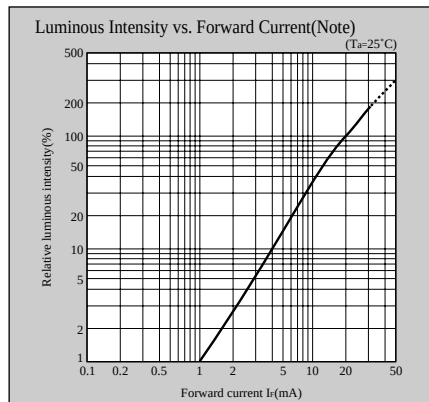
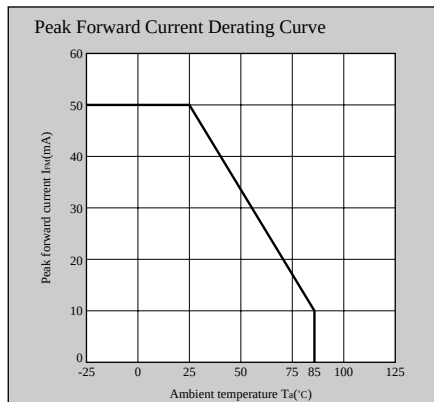
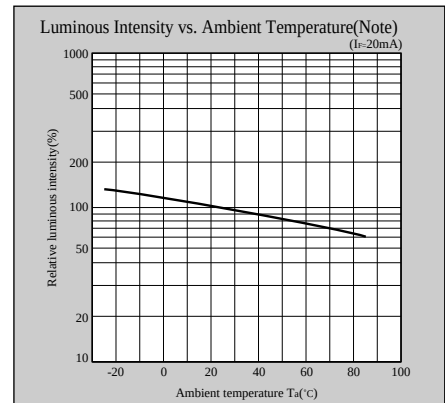
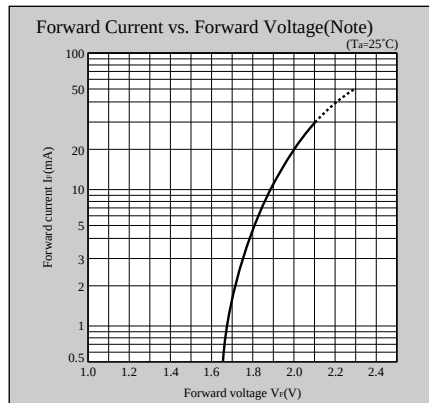
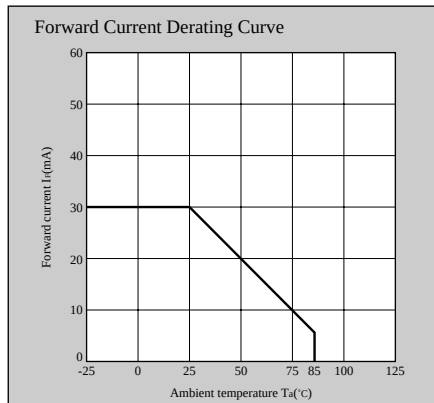
Duty Ratio vs. Peak Forward Current



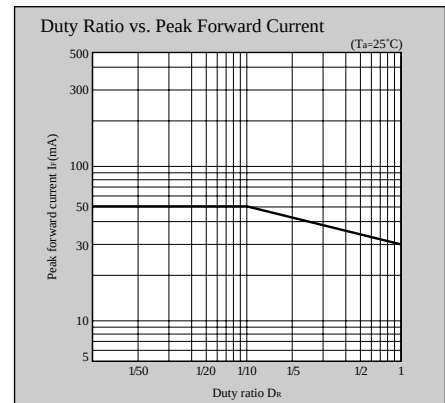
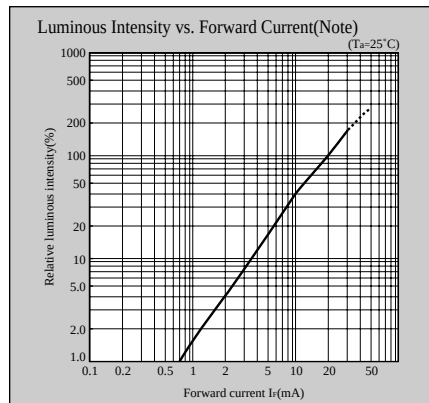
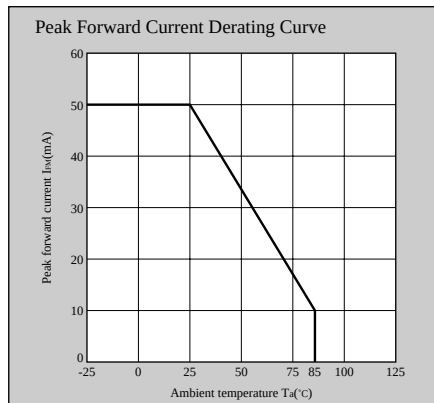
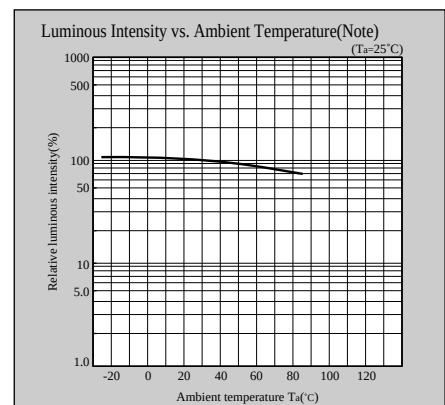
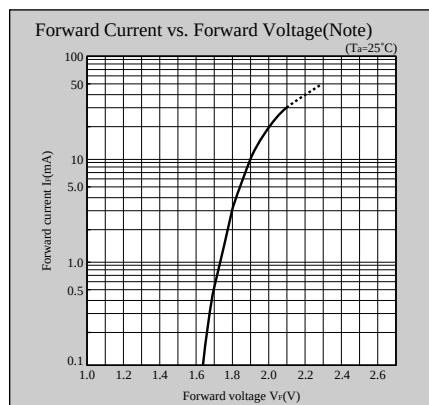
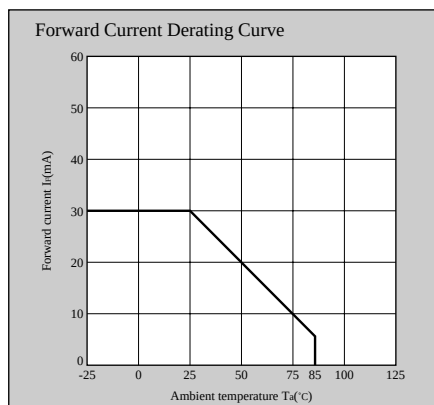
Note) Characteristics shown in diagrams are typical values. (not assurance value)

Characteristics Diagrams

HS,S series



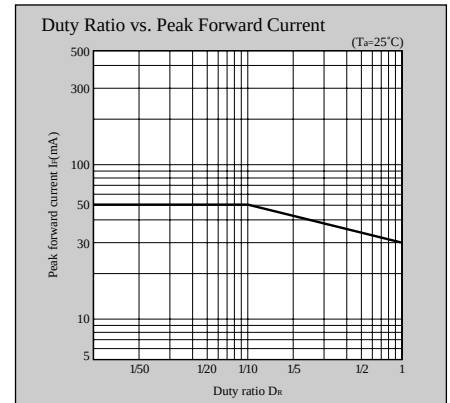
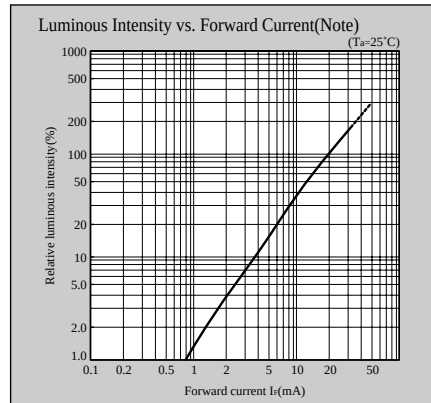
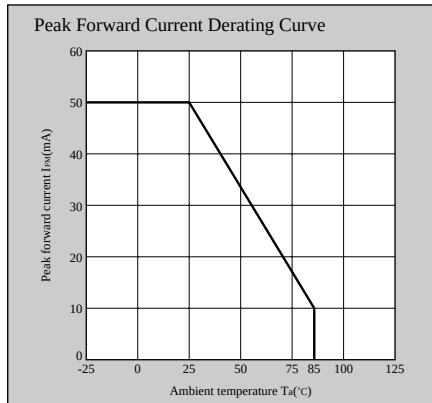
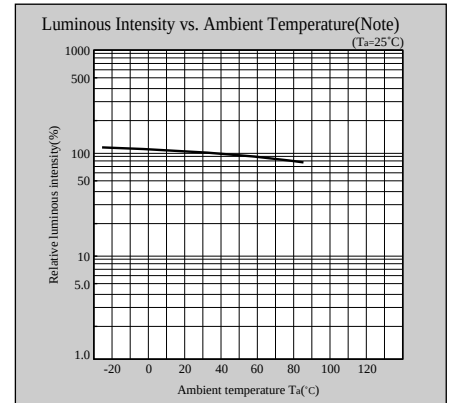
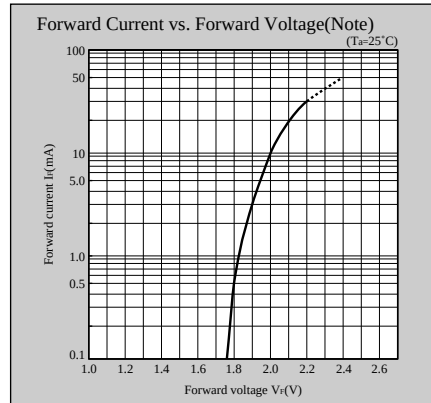
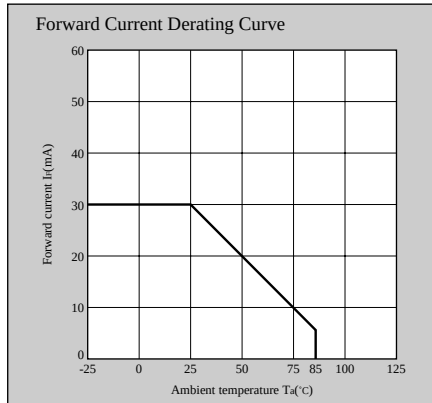
HY,H series



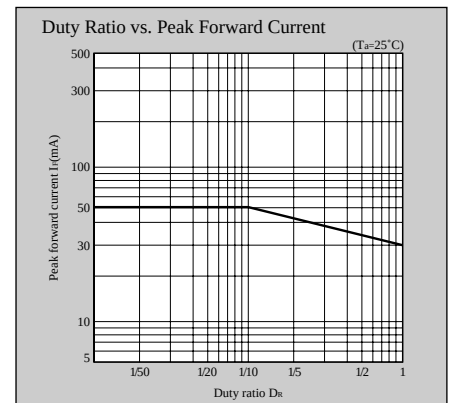
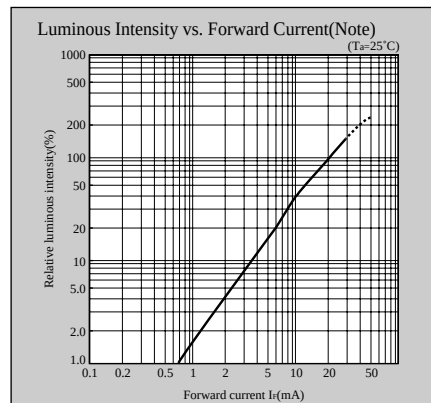
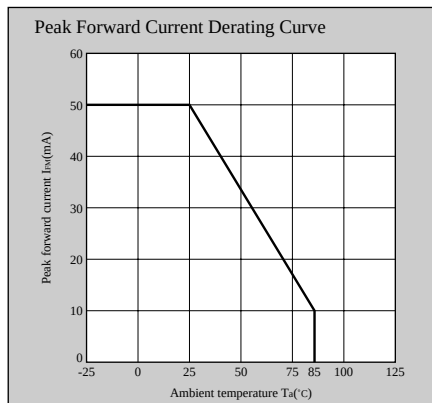
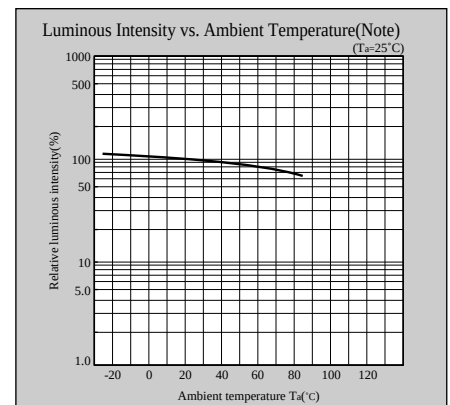
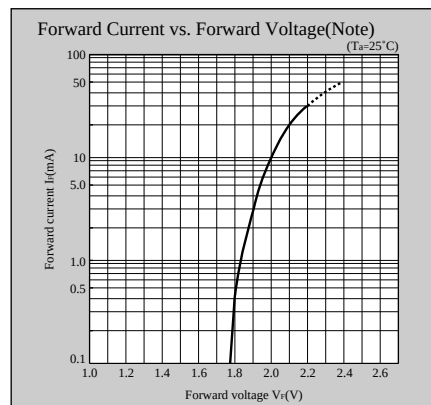
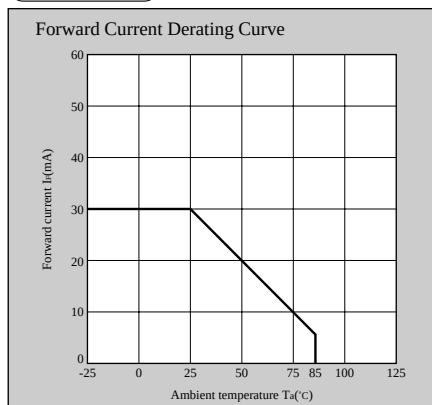
Note) Characteristics shown in diagrams are typical values. (not assurance value)

Characteristics Diagrams

EG,E,F,C series



KG,K series



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

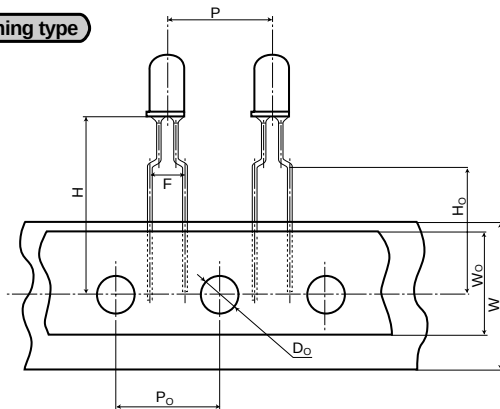
Taping Specifications

■ General Description

Sharp can supply tape-packaged LED lamps for automatic mounting. They will contribute to the high-efficiency mounting, high-precision, power saving. Please confirm before use because some products are not available in taping package.

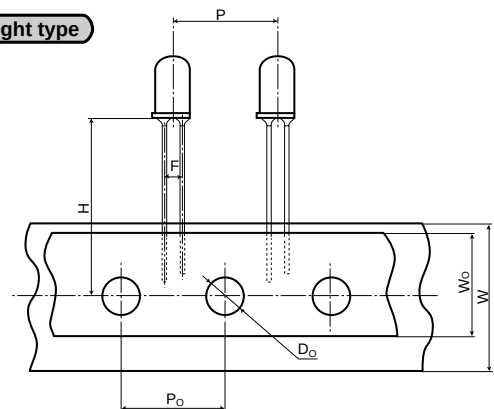
■ Taping specification(Unit : mm, TYP. value)

Forming type



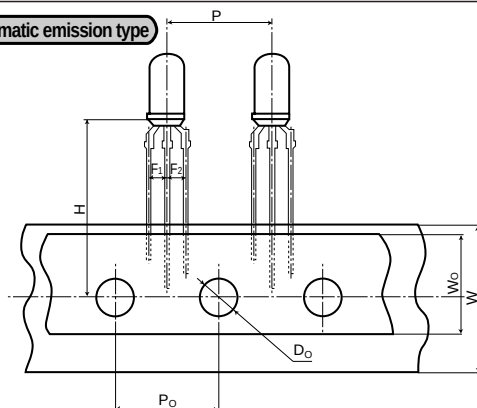
Parameter	Symbol	A	B	D
Case end height	H	23.35	19.5	21.5
Lead clinch height	H ₀	16.0		
Tape width	W	18.0		
Adhesive tape width	W ₀	13.0		
Product pitch	P	12.7		
Sprocket hole pitch	P ₀	12.7		
Lead pitch	F	5.0		
Sprocket hole diameter	D ₀	ø4.0		

Straight type



Parameter	Symbol	p	W
Case end height	H	18.0	23.35
Lead clinch height	H ₀	—	
Tape width	W	18.0	
Adhesive tape width	W ₀	13.0	
Product pitch	P	12.7	
Sprocket hole pitch	P ₀	12.7	
Lead pitch	F	2.54	
Sprocket hole diameter	D ₀	ø4.0	

Dichromatic emission type



Parameter	Symbol	Size (mm)
Case end height	H	19.5
Lead clinch height	H ₀	—
Tape width	W	18.0
Adhesive tape width	W ₀	13.0
Product pitch	P	12.7
Sprocket hole pitch	P ₀	12.7
Lead pitch	F ₁ , F ₂	2.54
Sprocket hole diameter	D ₀	ø4.0

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 - Test and measurement equipment
 - Industrial control
 - Audio visual equipment
 - Consumer electronics
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 - Traffic signals
 - Gas leakage sensor breakers
 - Alarm equipment
 - Various safety devices, etc.
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