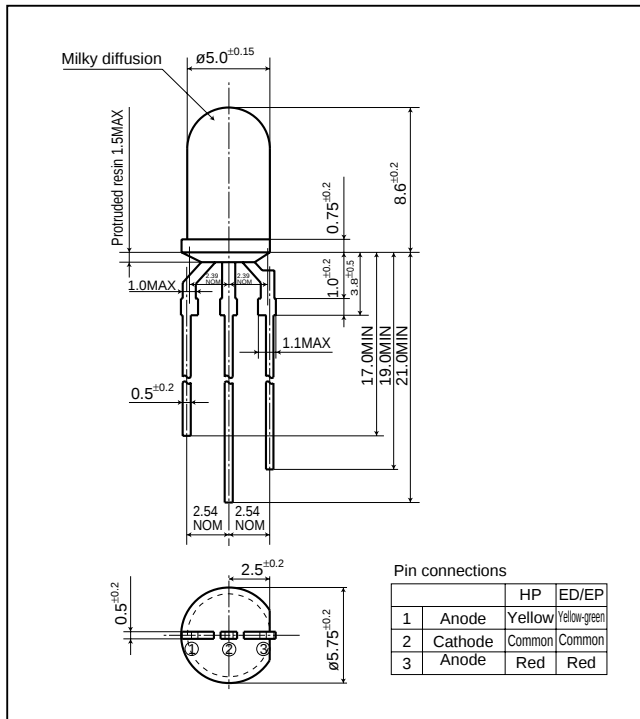


GL5□□5 series

ø5mm(T-1 3/4), Cylinder Type,
Milky Diffusion, Dichromatic LED
Lamps for Backlight/Indicator

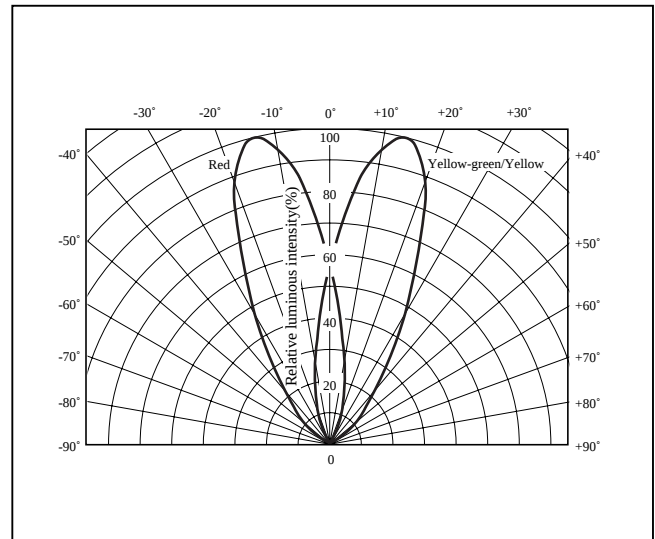
■ Outline Dimensions

(Unit : mm)



■ Directive Characteristics

(Ta=25°C)



■ Absolute Maximum Ratings

(Ta=25°C)

Model No.	Emitting color	Material	Power dissipation P ^{*1} (mW)	Forward current I _F (mA)	Peak forward current I _{FM} ^{*2} (mA)	Derating factor (mA/°C)		Reverse voltage V _R (V)	Operating temperature T _{opr} (°C)	Storage temperature T _{stg} (°C)	Soldering temperature T _{sol} ^{*3} (°C)
						DC	Pulse				
GL5EP5	Yellow-green	GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
	Red	GaP	48	20	50	0.27	0.67	5			
GL5ED5	Yellow-green	GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
	Red	GaAsP on GaP	84	30	50	0.40	0.67	5			
GL5HP5	Yellow	GaAsP on GaP	50	20	50	0.27	0.67	5	-25 to +85	-25 to +100	260
	Red	GaP	35	15	50	0.20	0.67	5			

*1 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.

*2 Duty ratio=1/10, Pulse width=0.1ms

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

■ Electro-optical Characteristics

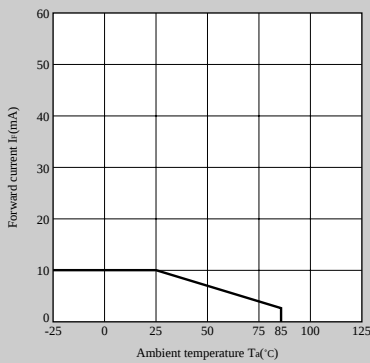
(Ta=25°C)

Lens type	Model No.	Radiation color	Forward voltage V _F (V)		Peak emission wavelength λ _p (nm)		Luminous intensity I _v (mcd)		Spectrum radiation bandwidth Δλ(nm)		Reverse current I _R (μA)		Terminal capacitance C _t (pF)		Page for characteristics diagrams
			TYP	MAX	TYP	I _F (mA)	TYP	I _F (mA)	TYP	I _F (mA)	MAX	V _R (V)	TYP	(MHz)	
Milky diffusion	GL5EP5	Yellow-green	2.1	2.8	565	20	40	20	30	20	10	4	35	1	102
		Red	2.0	2.4	695	10	9.0	10	100	10	10	4	55	1	100
	GL5ED5	Yellow-green	2.1	2.8	565	20	40	20	30	20	10	4	35	1	102
		Red	2.0	2.8	635	20	25	20	35	20	10	4	20	1	100
	GL5HP5	Yellow	1.9	2.5	585	10	15	10	30	10	10	4	35	1	101
		Red	2.0	2.4	695	10	9.0	10	100	10	10	4	55	1	100

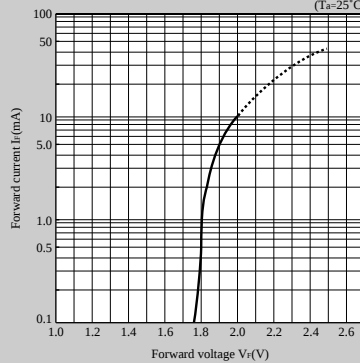
Characteristics Diagrams

PR,P series

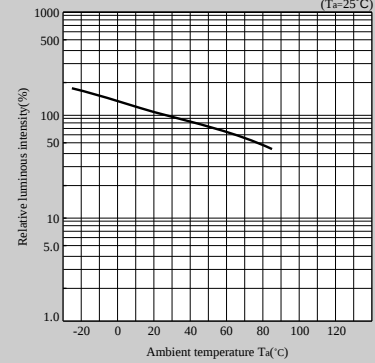
Forward Current Derating Curve



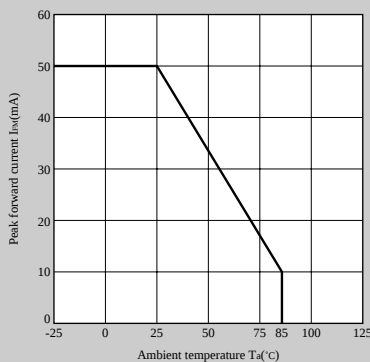
Forward Current vs. Forward Voltage(Note)



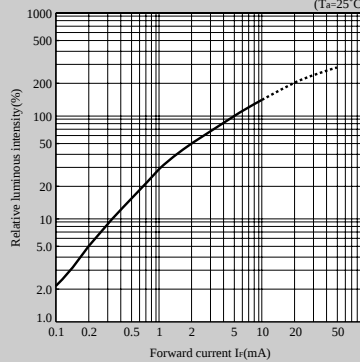
Luminous Intensity vs. Ambient Temperature(Note)



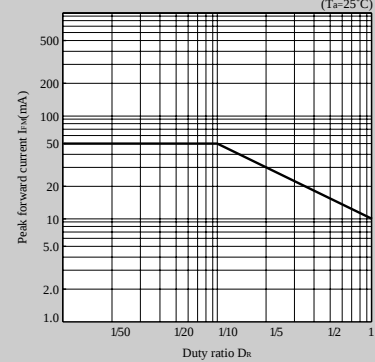
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)

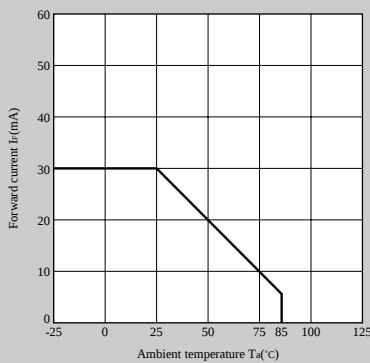


Duty Ratio vs. Peak Forward Current

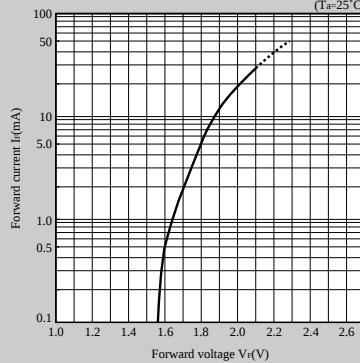


HD,D series

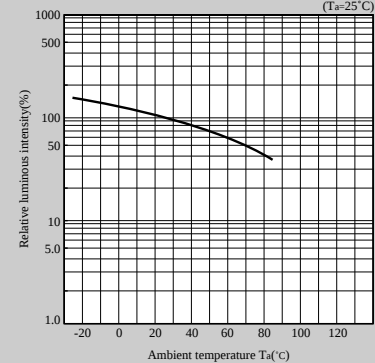
Forward Current Derating Curve



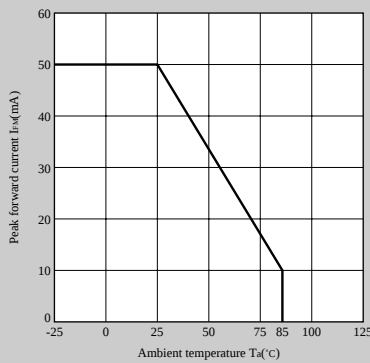
Forward Current vs. Forward Voltage(Note)



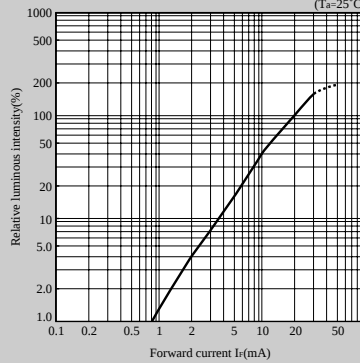
Luminous Intensity vs. Ambient Temperature(Note)



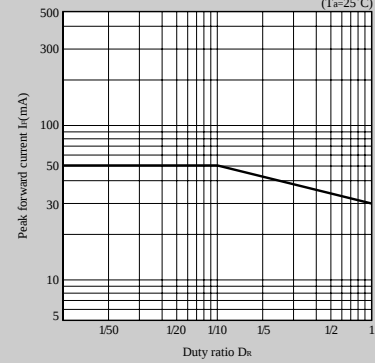
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



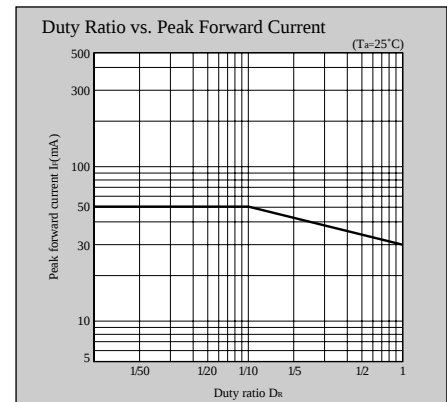
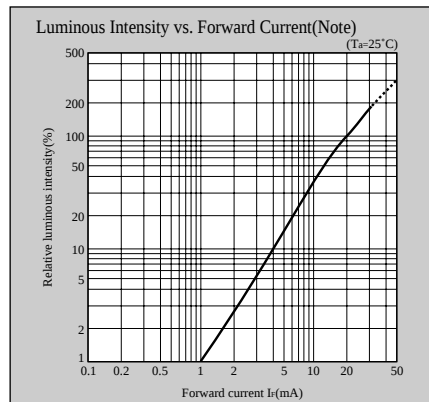
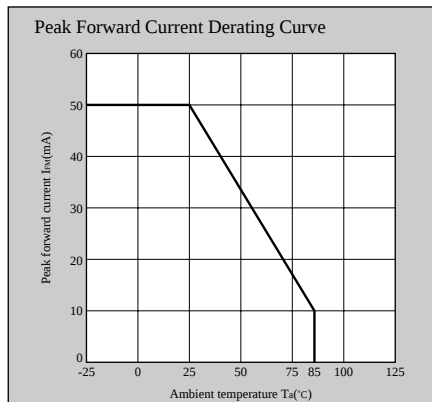
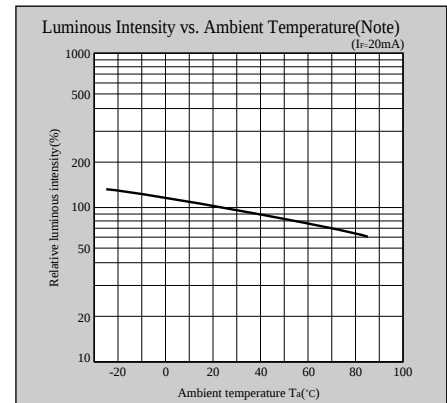
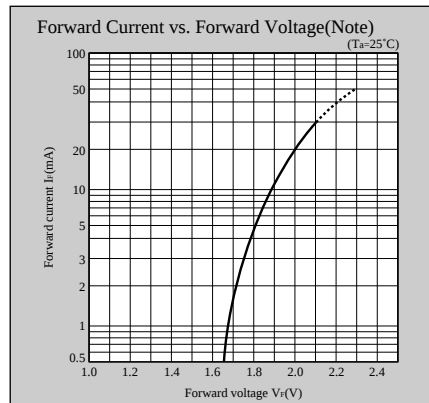
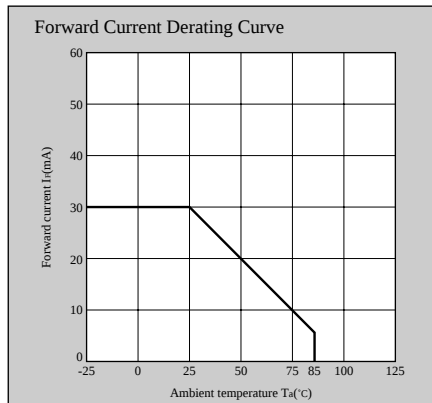
Duty Ratio vs. Peak Forward Current



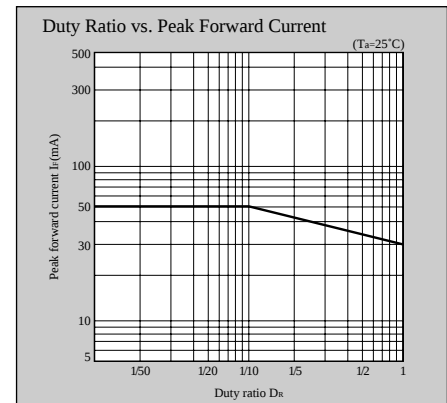
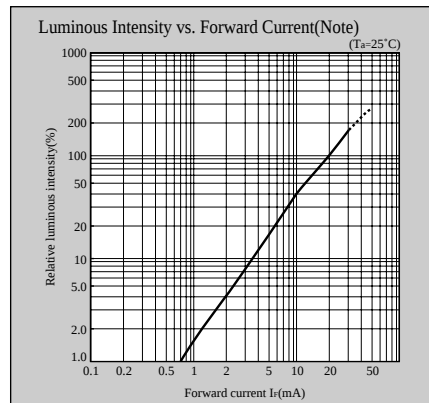
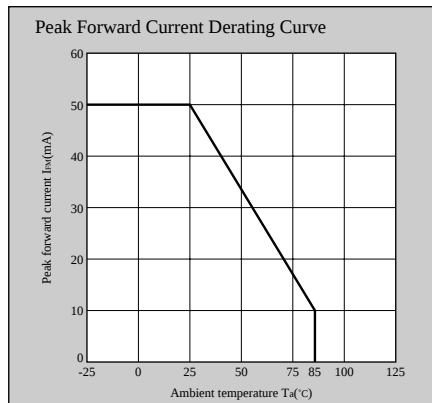
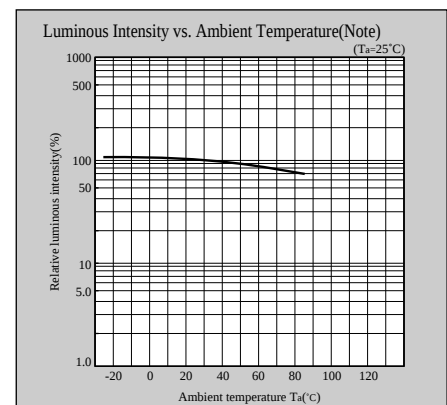
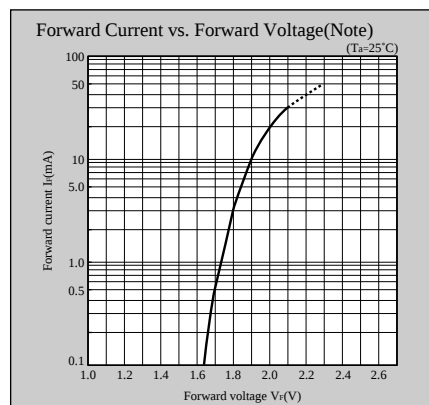
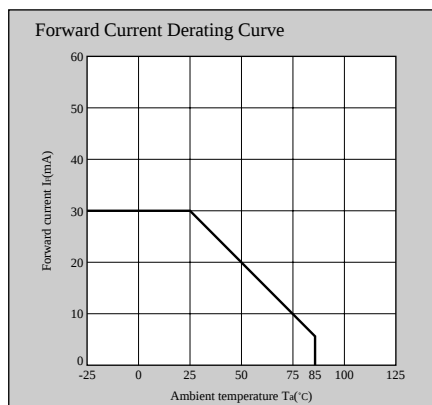
Note) Characteristics shown in diagrams are typical values. (not assurance value)

Characteristics Diagrams

HS,S series



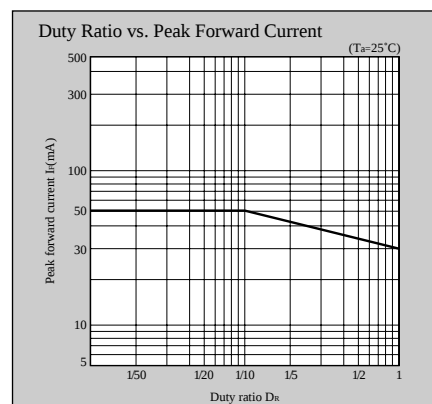
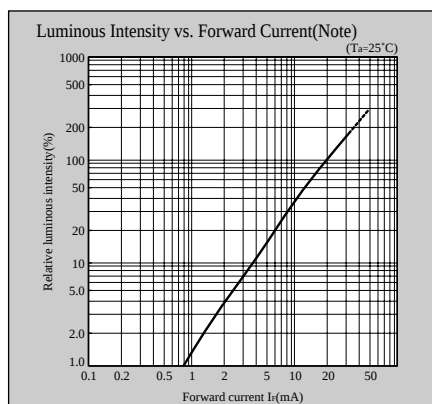
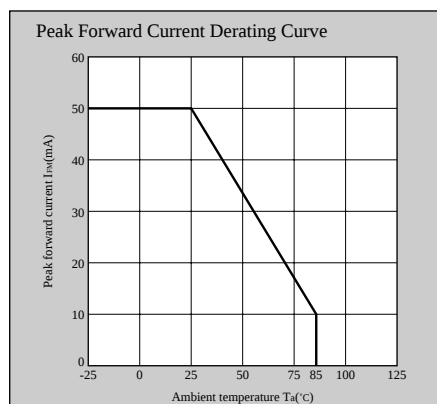
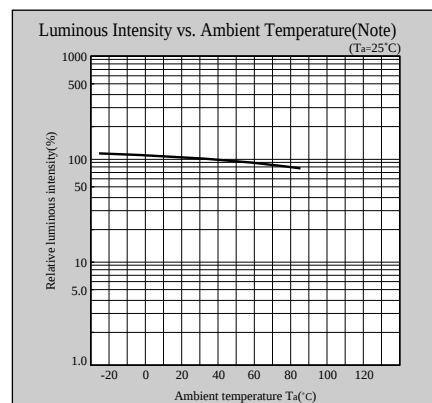
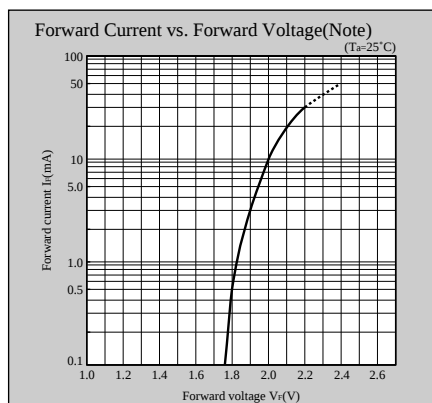
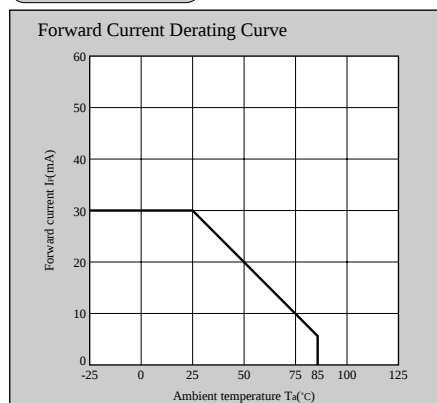
HY,H series



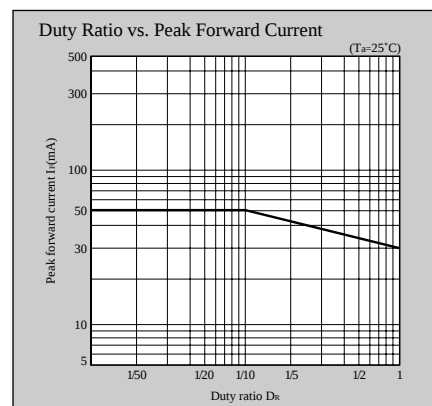
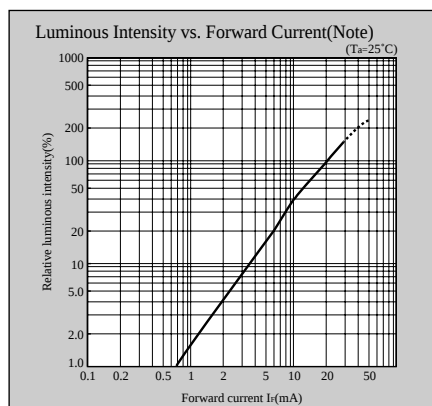
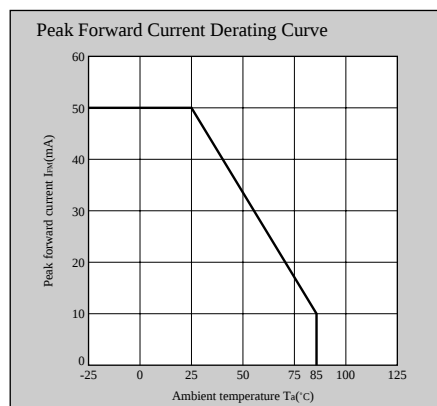
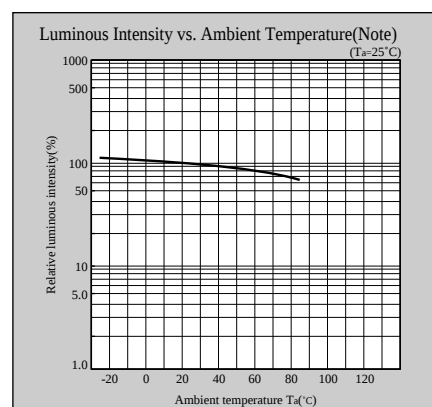
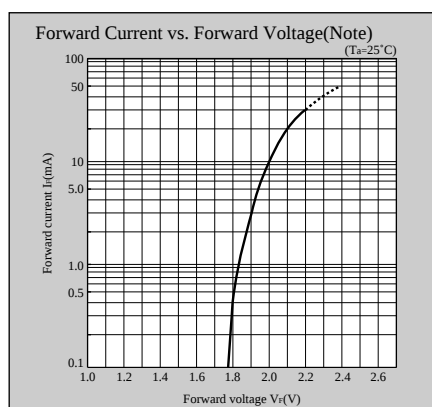
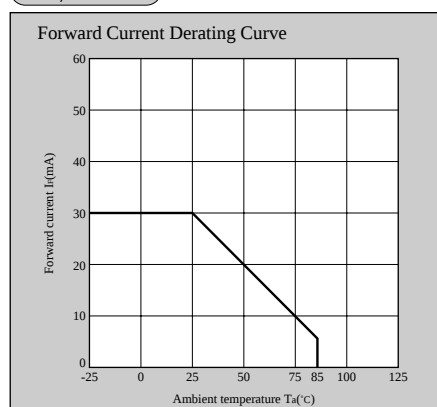
Note) Characteristics shown in diagrams are typical values. (not assurance value)

Characteristics Diagrams

EG,E,F,C series



KG,K series



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

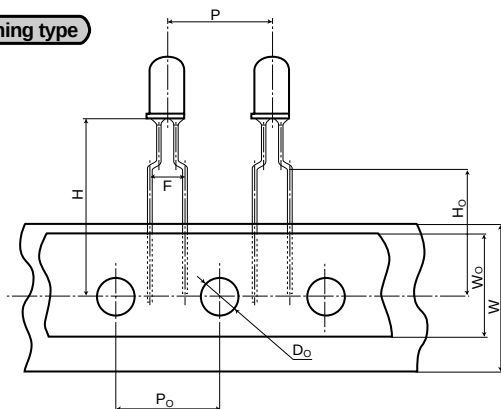
Taping Specifications

■ 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.

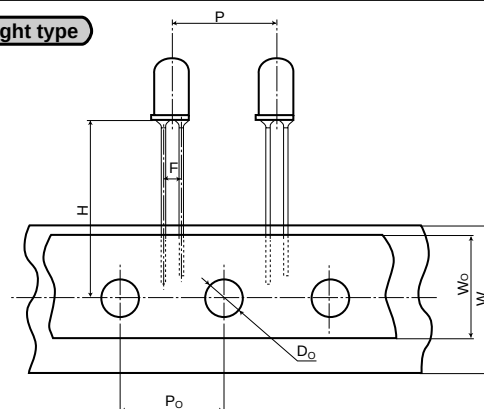
■ Taping specification(Unit : mm, TYP. value)

Forming type



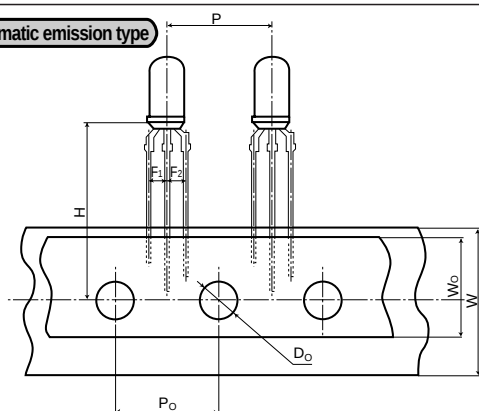
Parameter	Symbol	A	B	D
Case end height	H	23.35	19.5	21.5
Lead clinch height	H _O	16.0		
Tape width	W	18.0		
Adhesive tape width	W _O	13.0		
Product pitch	P	12.7		
Sprocket hole pitch	P _O	12.7		
Lead pitch	F	5.0		
Sprocket hole diameter	D _O	ø4.0		

Straight type



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

Dichromatic emission type



Parameter	Symbol	Size (mm)
Case end height	H	19.5
Lead clinch height	H _O	—
Tape width	W	18.0
Adhesive tape width	W _O	13.0
Product pitch	P	12.7
Sprocket hole pitch	P _O	12.7
Lead pitch	F1, F2	2.54
Sprocket hole diameter	D _O	ø4.0

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 - Gas leakage sensor breakers
 - Alarm equipment
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