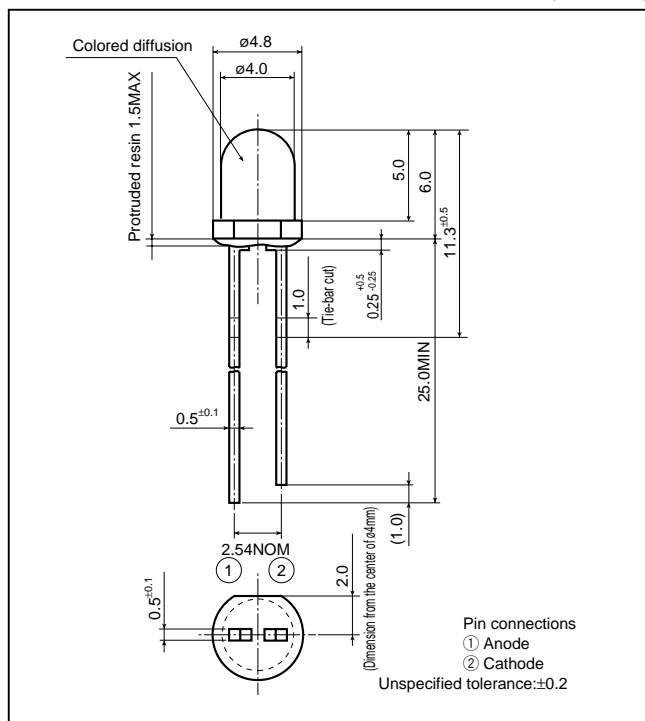


## GL4□□8 series

ø4mm, Cylinder Type, Colored  
Diffusion LED Lamps for Indicator

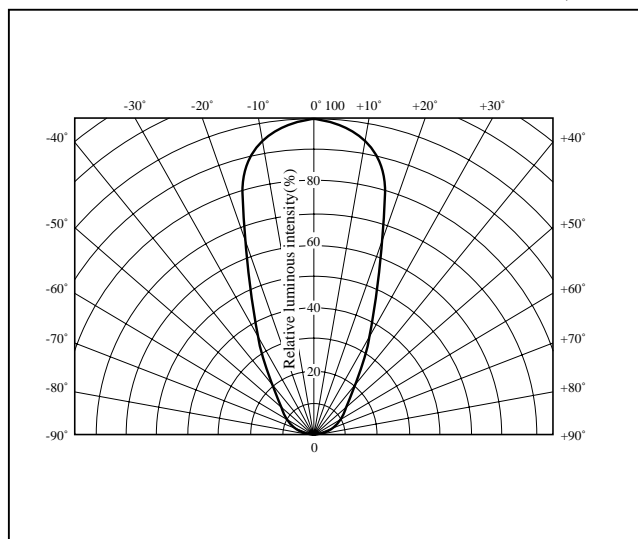
## ■ Outline Dimensions

(Unit : mm)



## ■ Directive Characteristics

(Ta=25°C)



## ■ Absolute Maximum Ratings

(Ta=25°C)

Model No.	Emitting color	Material	Power dissipation P (mW)	Forward current I <sub>F</sub> (mA)	Peak forward current I <sub>FM</sub> *1 (mA)	Derating factor (mA/°C)		Reverse voltage V <sub>R</sub> (V)	Operating temperature T <sub>opr</sub> (°C)	Storage temperature T <sub>stg</sub> (°C)	Soldering temperature T <sub>sol</sub> *2 (°C)
						DC	Pulse				
GL4PR8	Red	GaP	23	10	50	0.13	0.67	5	-25 to +85	-25 to +100	260
GL4HD8	Red	GaAsP on GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL4HS8	Sunset orange	GaAsP on GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL4HY8	Yellow	GaAsP on GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL4EG8	Yellow-green	GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL4KG8	Green	GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260

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

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

## ■ Electro-optical Characteristics

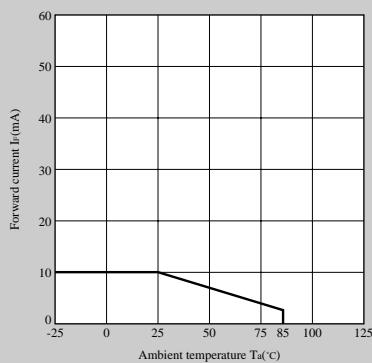
(Ta=25°C)

Lens type	Model No.	Forward voltage V <sub>F</sub> (V)		Peak emission wavelength λ <sub>p</sub> (nm)		Luminous intensity I <sub>v</sub> (mcd)		Spectrum radiation bandwidth Δλ(nm)		Reverse current I <sub>R</sub> (μA)		Terminal capacitance C <sub>t</sub> (pF)		Page for characteristics diagrams
		TYP	MAX	TYP	I <sub>F</sub> (mA)	TYP	I <sub>F</sub> (mA)	TYP	I <sub>F</sub> (mA)	MAX	V <sub>R</sub> (V)	TYP	(MHz)	
Colored diffusion	GL4PR8	1.9	2.3	695	5	15	5	100	5	10	4	55	1	100
	GL4HD8	2.0	2.8	635	20	110	20	35	20	10	4	20	1	100
	GL4HS8	2.0	2.8	610	20	80	20	35	20	10	4	15	1	101
	GL4HY8	2.0	2.8	585	20	110	20	30	20	10	4	35	1	101
	GL4EG8	2.1	2.8	565	20	100	20	30	20	10	4	35	1	102
	GL4KG8	2.1	2.8	555	20	30	20	25	20	10	4	40	1	102

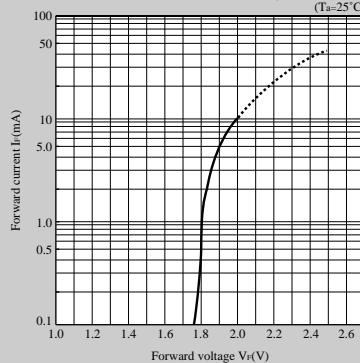
# Characteristics Diagrams

## PR,P series

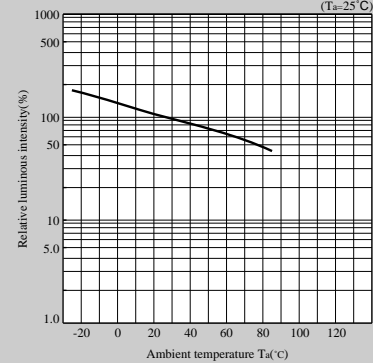
Forward Current Derating Curve



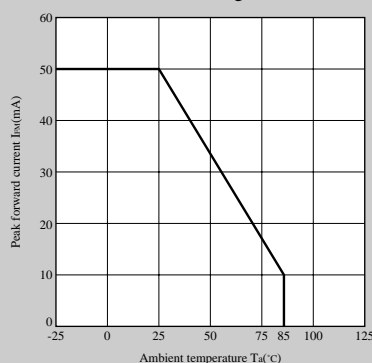
Forward Current vs. Forward Voltage(Note)



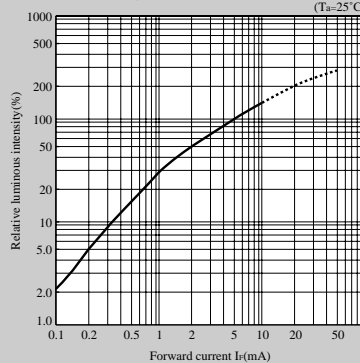
Luminous Intensity vs. Ambient Temperature(Note)



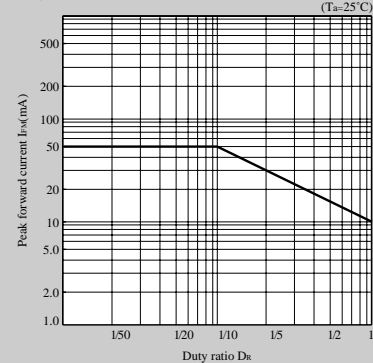
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)

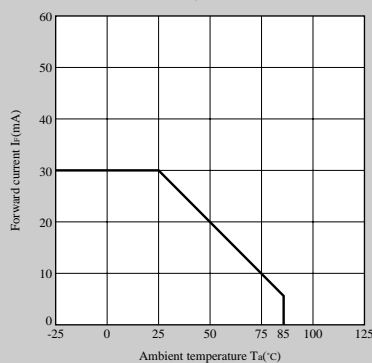


Duty Ratio vs. Peak Forward Current

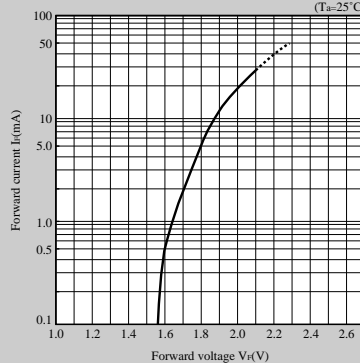


## HD,D series

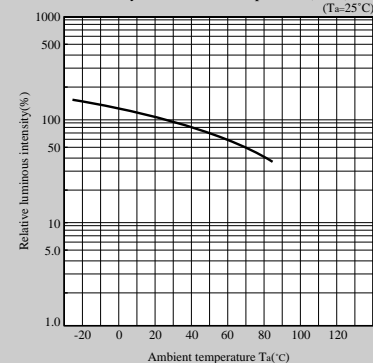
Forward Current Derating Curve



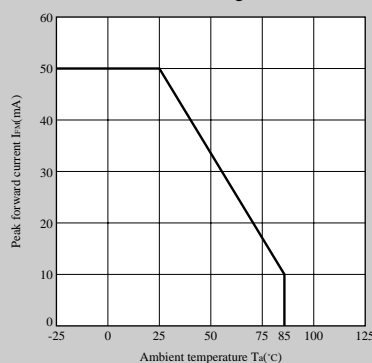
Forward Current vs. Forward Voltage(Note)



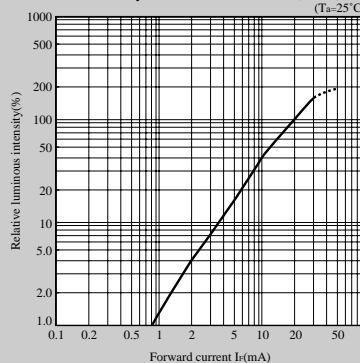
Luminous Intensity vs. Ambient Temperature(Note)



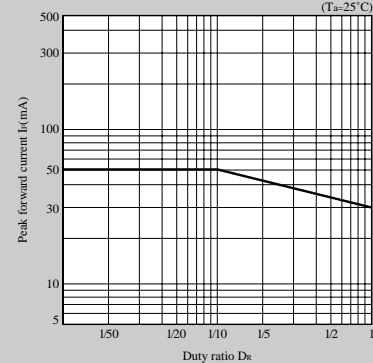
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



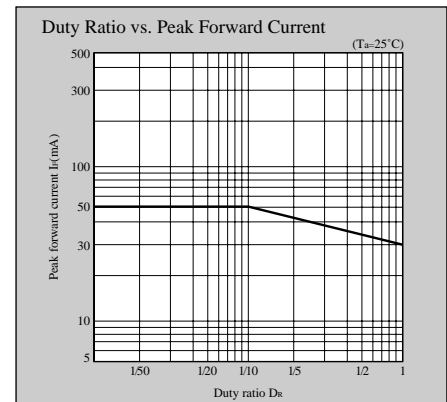
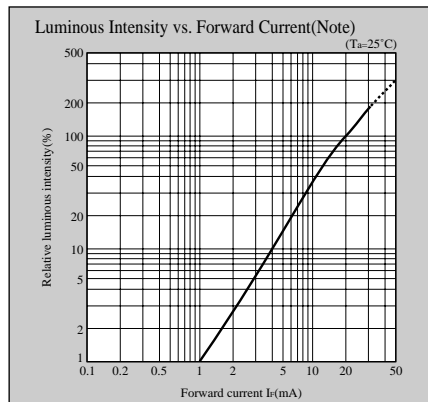
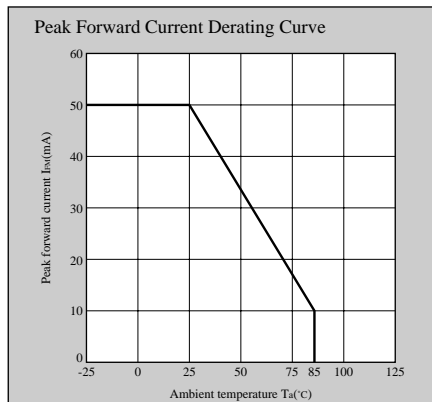
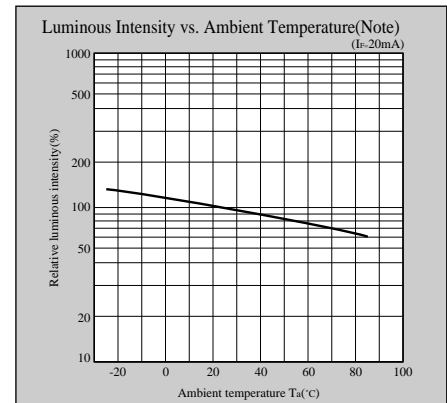
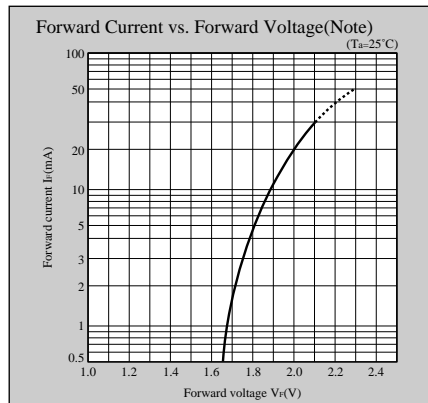
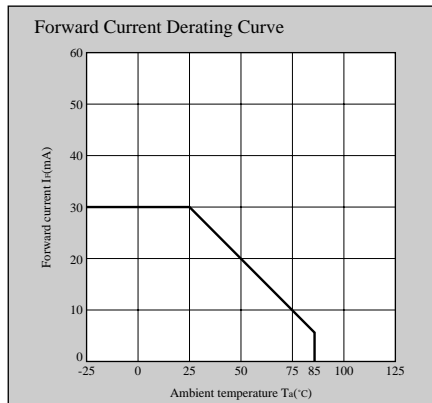
Duty Ratio vs. Peak Forward Current



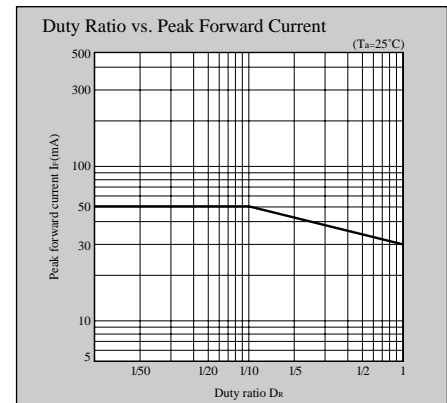
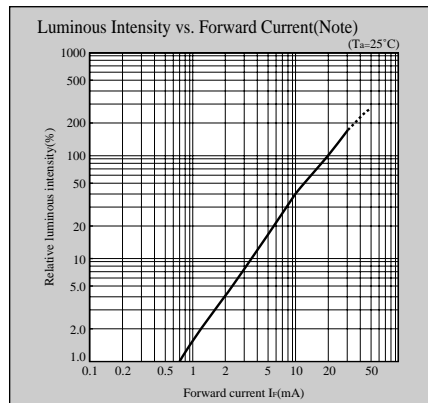
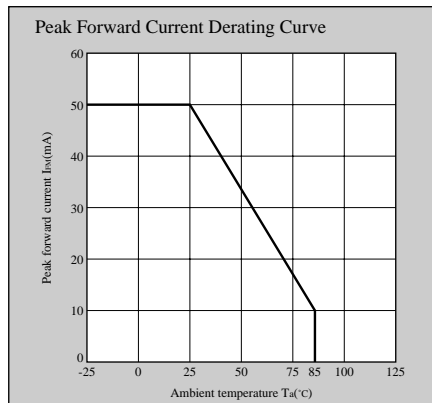
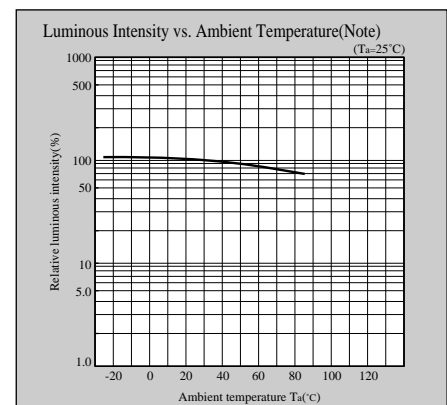
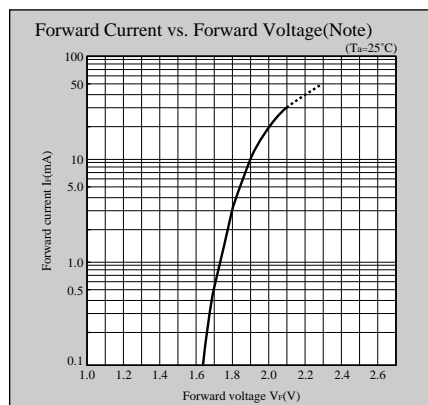
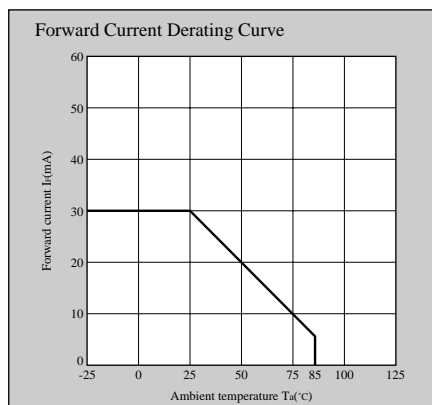
Note) Characteristics shown in diagrams are typical values. (not assurance value)

# Characteristics Diagrams

## HS,S series



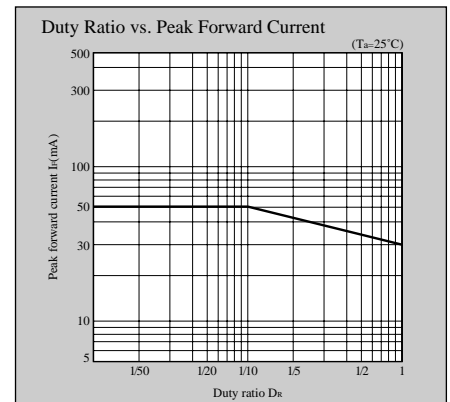
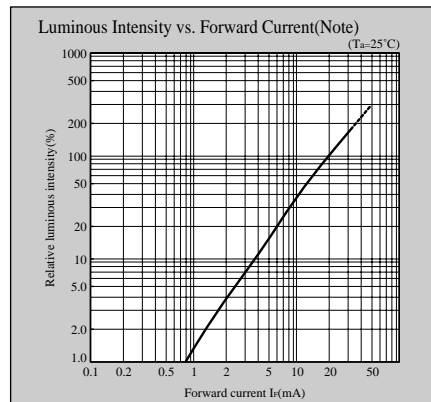
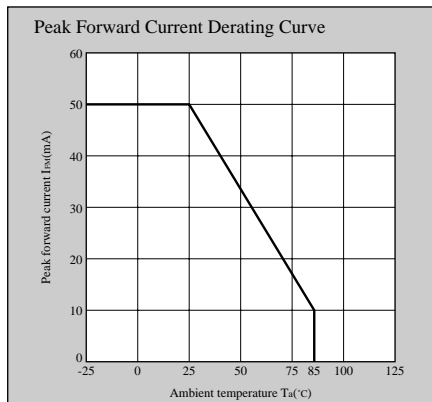
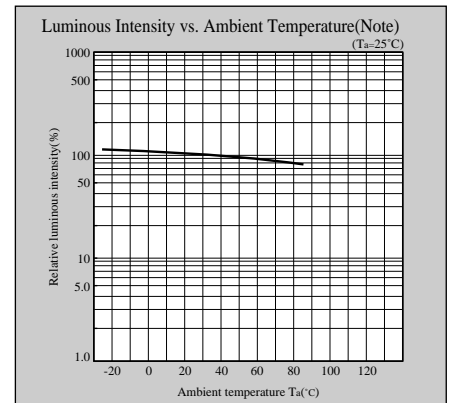
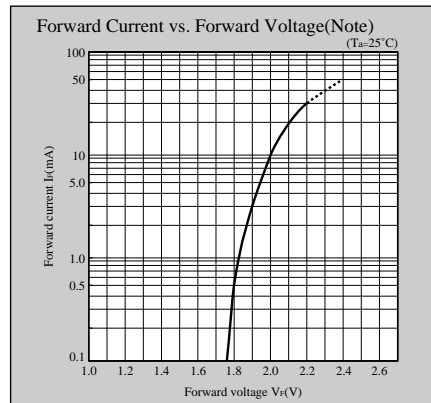
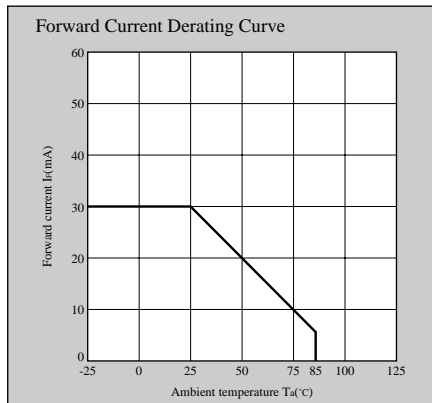
## HY,H series



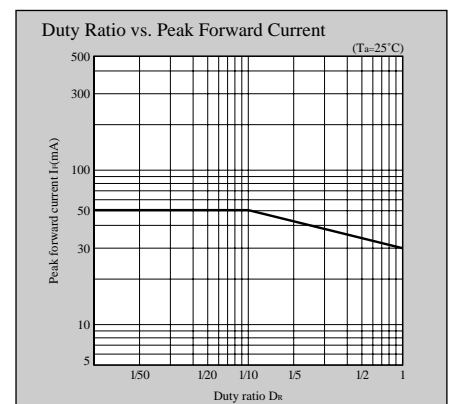
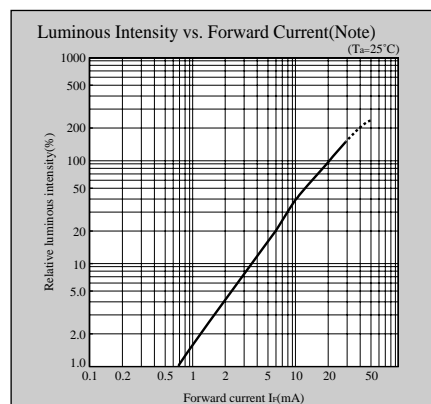
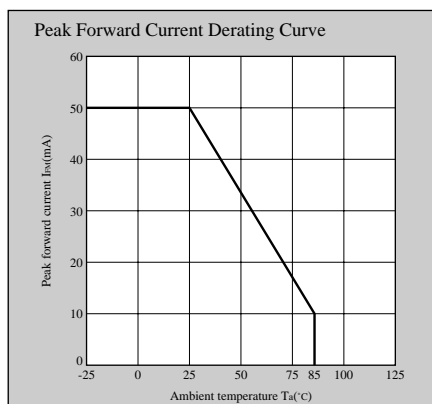
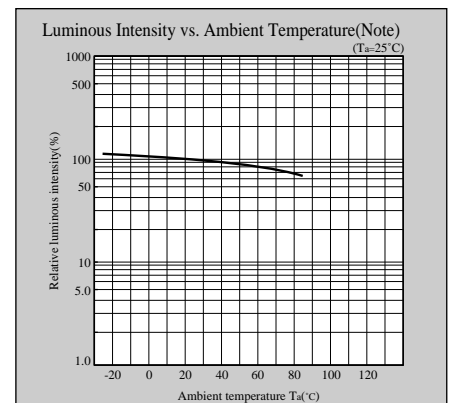
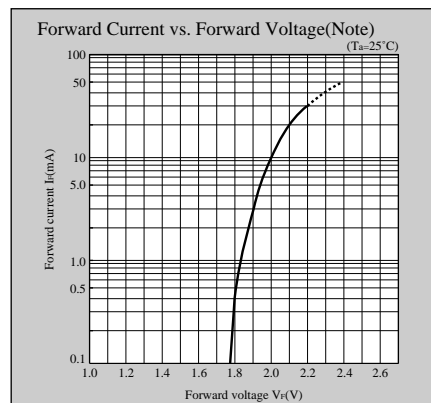
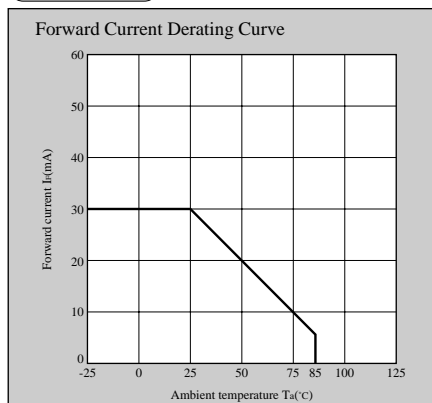
Note) Characteristics shown in diagrams are typical values. (not assurance value)

# Characteristics Diagrams

## EG,E,F,C series



## KG,K series



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

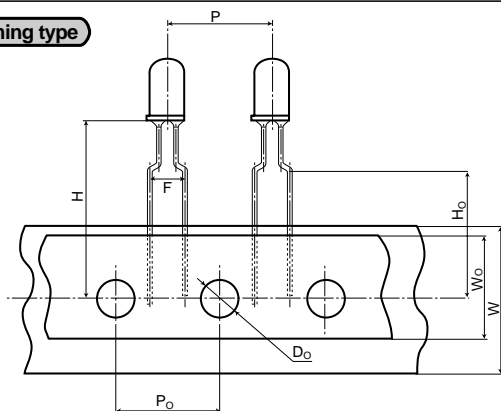
# Taping Specifications

## ■ 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.

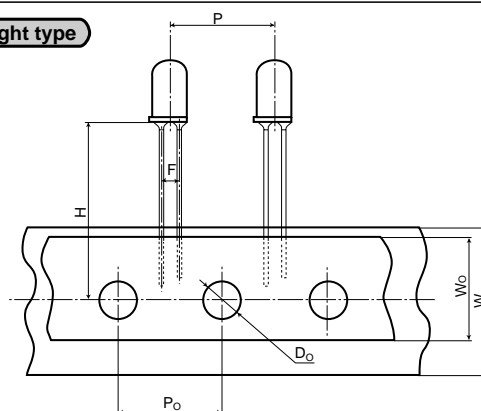
## ■ Taping specification(Unit : mm, TYP. value)

**Forming type**



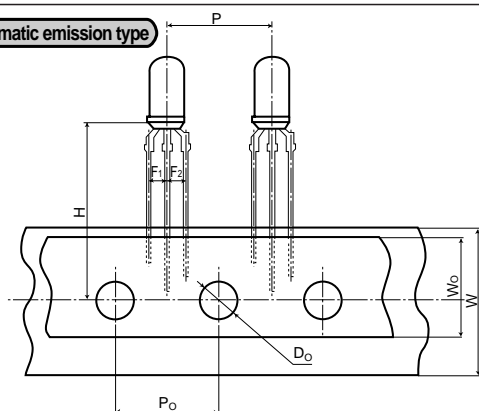
Parameter	Symbol	A	B	D
Case end height	H	23.35	19.5	21.5
Lead clinch height	H <sub>O</sub>	16.0		
Tape width	W	18.0		
Adhesive tape width	W <sub>O</sub>	13.0		
Product pitch	P	12.7		
Sprocket hole pitch	P <sub>O</sub>	12.7		
Lead pitch	F	5.0		
Sprocket hole diameter	D <sub>O</sub>	ø4.0		

**Straight type**



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

**Dichromatic emission type**



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

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    - Alarm equipment
    - Various safety devices, etc.
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