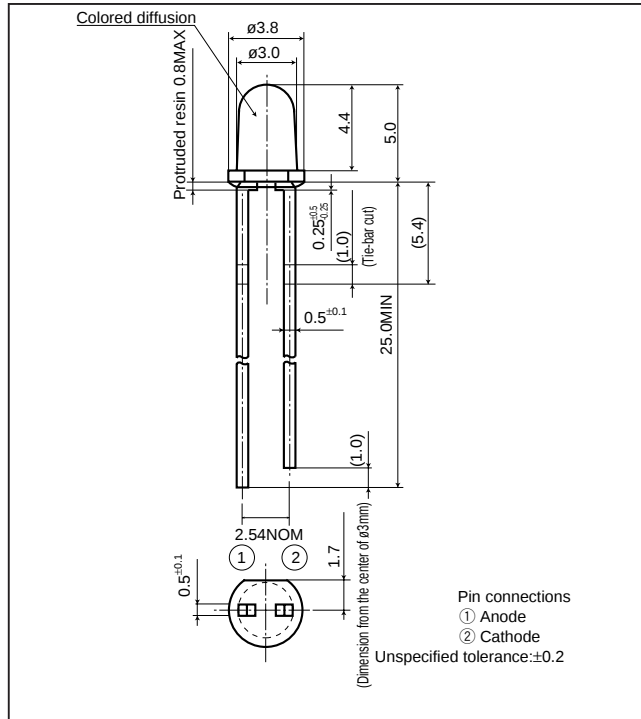


GL3□□8 series

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

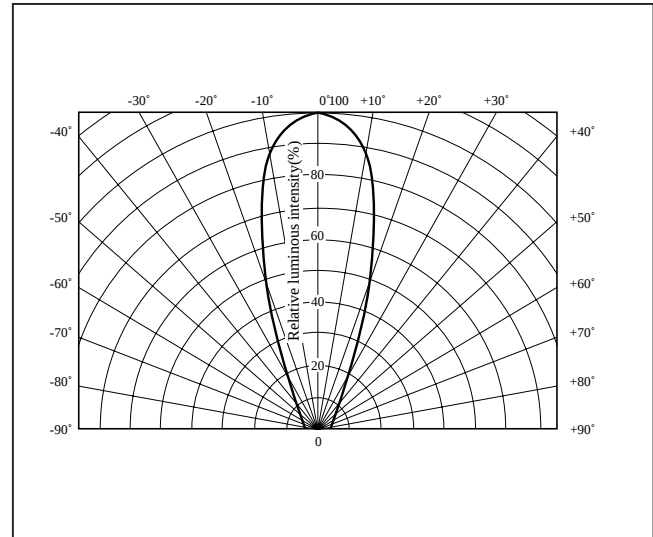
Outline Dimensions

(Unit : mm)



Directive Characteristics

(Ta=25°C)



Absolute Maximum Ratings

(Ta=25°C)

Model No.	Emitting color	Material	Power dissipation P (mW)	Forward current IF (mA)	Peak forward current IFM (mA)	Derating factor (mA/°C)		Reverse voltage VR (V)	Operating temperature Topr (°C)	Storage temperature Tstg (°C)	Soldering temperature Tsol ^{*3} (°C)
						DC	Pulse				
GL3UR8	Red(Super-luminosity)	GaAlAs on GaAlAs	75	30	50 ^{*1}	0.40	0.67	4	-25 to +85	-25 to +100	260
GL3TR8	Red(High-luminosity)	GaAlAs on GaAs	110	50	300 ^{*2}	0.67	4.00	5	-25 to +85	-25 to +100	260

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

*2 Duty ratio=1/16, Pulse width≤1ms

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

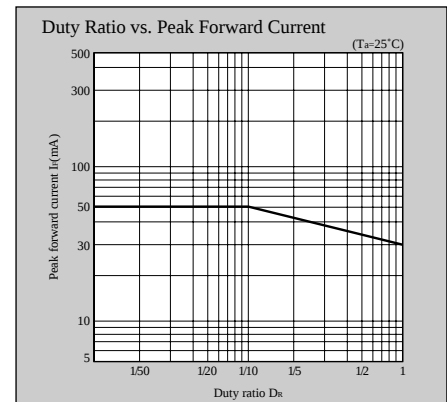
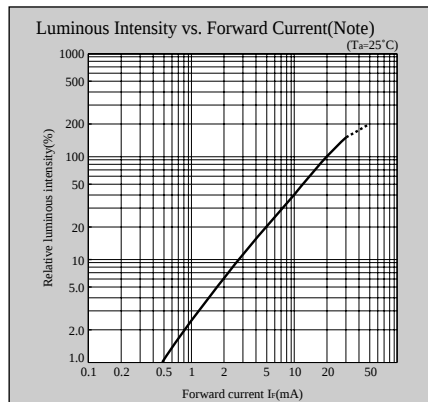
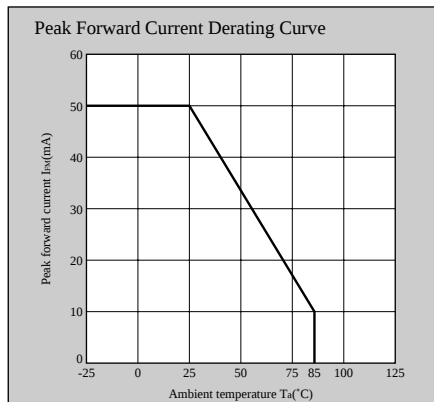
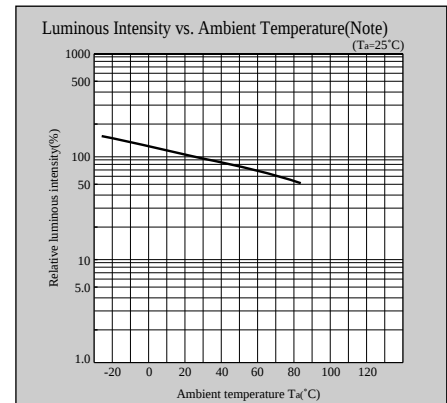
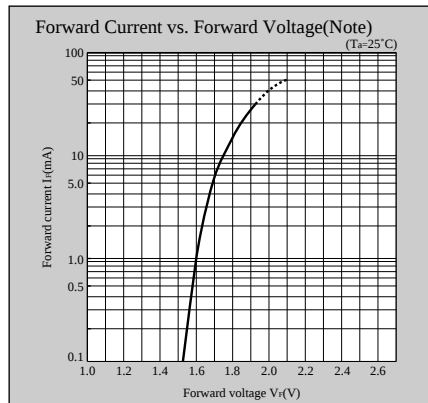
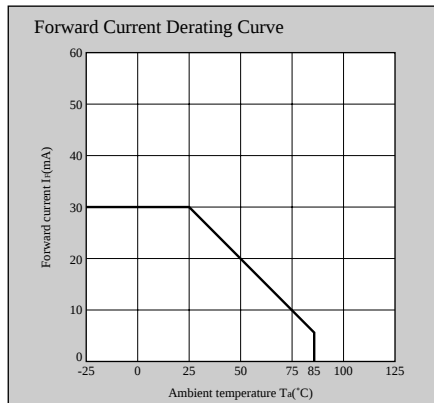
Electro-optical Characteristics

(Ta=25°C)

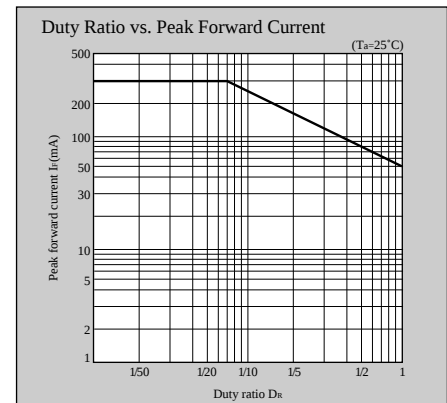
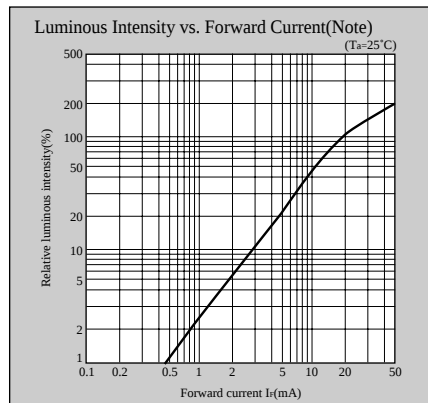
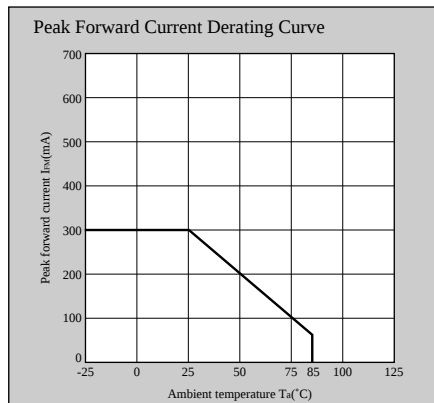
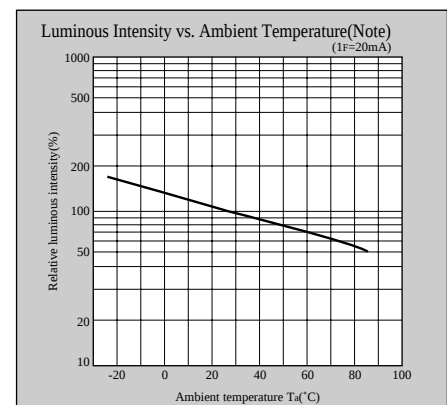
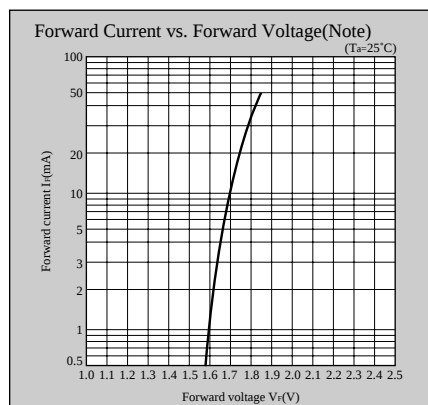
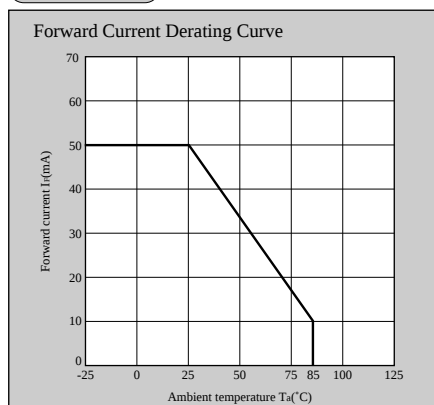
Lens type	Model No.	Forward voltage VF(V)		Peak emission wavelength λp(nm)		Luminous intensity Iv(mcd)		Spectrum radiation bandwidth Δλ(nm)		Reverse current IR(μA)		Terminal capacitance C.(pF)		Page for characteristics diagrams
		TYP	MAX	TYP	IF (mA)	TYP	IF (mA)	TYP	IF (mA)	MAX	VR (V)	TYP	(MHz)	
Colored diffusion	GL3UR8	1.85	2.5	660	20	300	20	20	20	100	3	25	1	99
	GL3TR8	1.75	2.2	660	20	60	20	20	20	10	4	30	1	99

Characteristics Diagrams

UR,U series



TR,T series



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

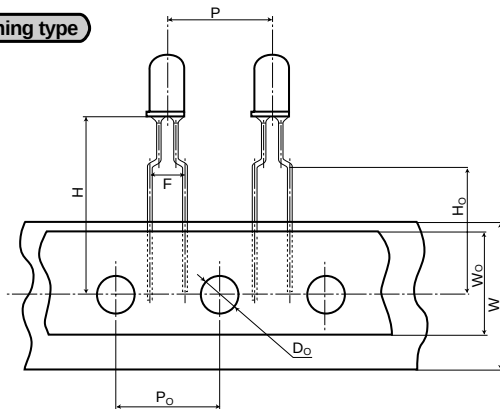
Taping Specifications

■ 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.

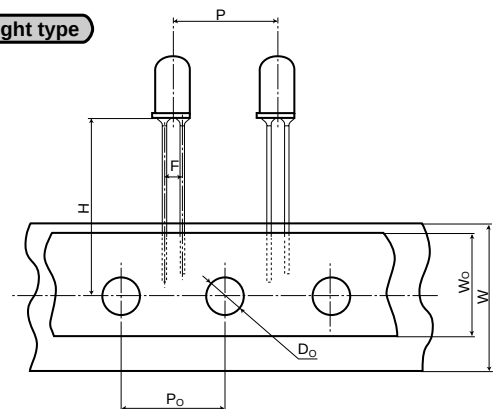
■ Taping specification(Unit : mm, TYP. value)

Forming type



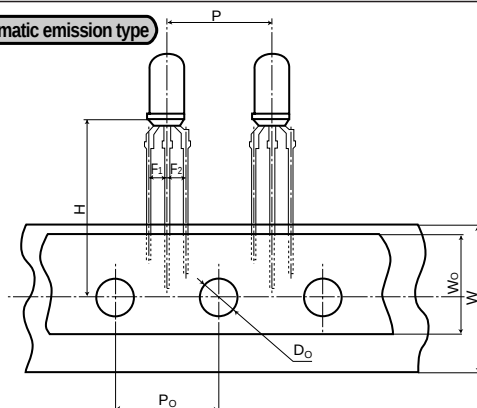
Parameter	Symbol	A	B	D
Case end height	H	23.35	19.5	21.5
Lead clinch height	H _O	16.0		
Tape width	W	18.0		
Adhesive tape width	W _O	13.0		
Product pitch	P	12.7		
Sprocket hole pitch	P _O	12.7		
Lead pitch	F	5.0		
Sprocket hole diameter	D _O	ø4.0		

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	F ₁ , F ₂	2.54
Sprocket hole diameter	D _O	ø4.0

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 - Traffic signals
 - Gas leakage sensor breakers
 - Alarm equipment
 - Various safety devices, etc.
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