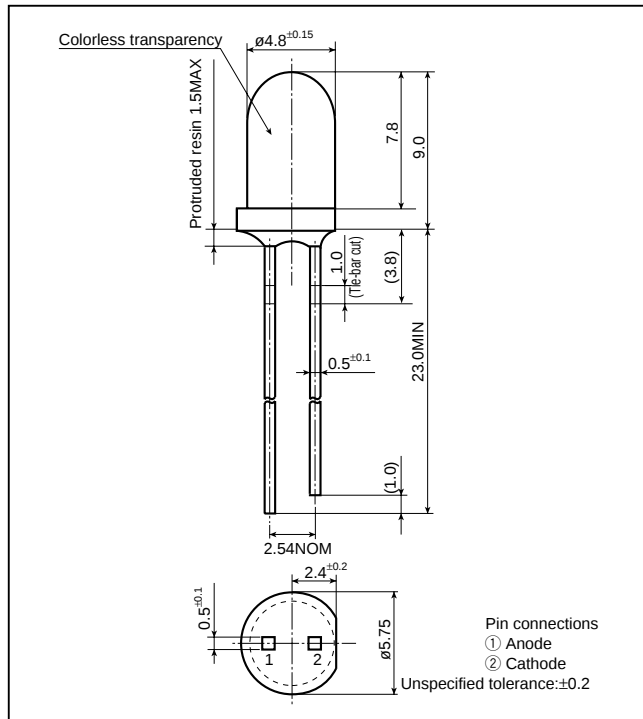


GL5TR43/GL5UR2K1/GL5UR3K1

ø5mm(T-1 3/4), Cylinder Type, Colorless
Transparency, High-luminosity LED
Lamps for Outdoor Use

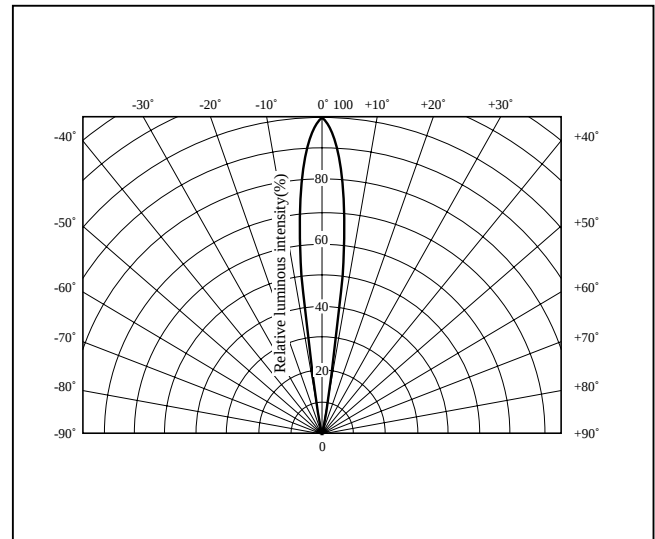
■ Outline Dimensions

(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 _F (mA)	Peak forward current I _{FM} (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				
GL5UR2K1	Red(Super-luminosity)	GaAlAs on GaAlAs	75	30	50 ^{*1}	0.40	0.67	4	-25 to +85	-25 to +100	260
GL5UR3K1	Red(Super-luminosity)	GaAlAs on GaAlAs	75	30	50 ^{*1}	0.40	0.67	4	-25 to +85	-25 to +100	260
GL5TR43	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)

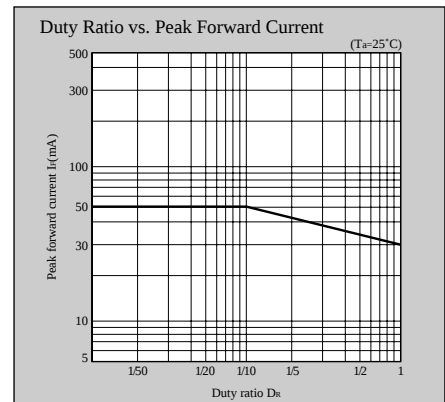
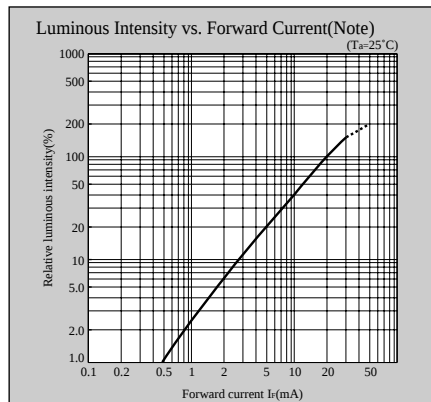
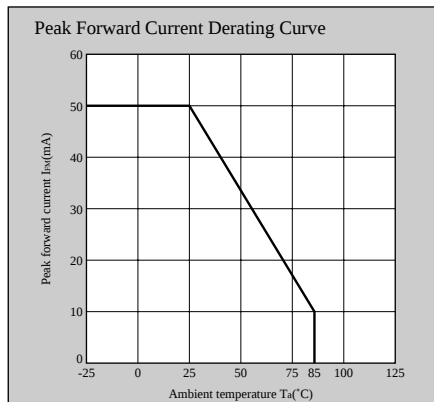
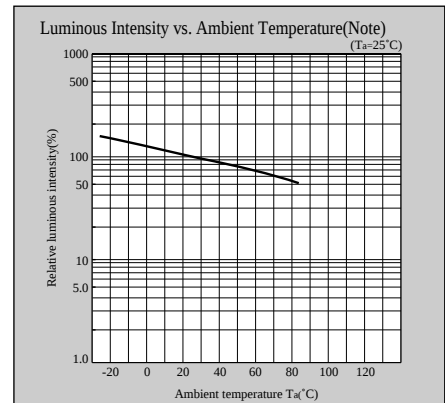
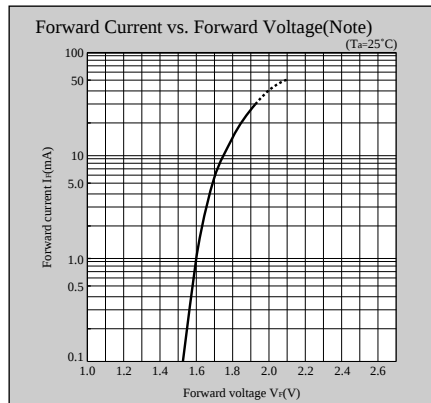
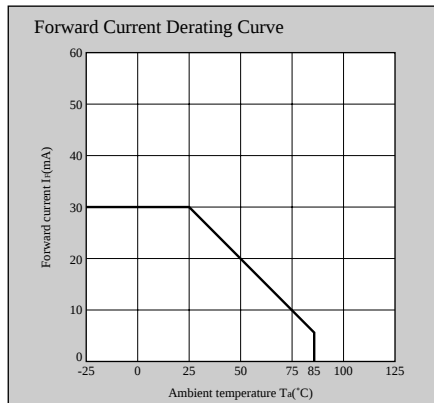
■ Electro-optical Characteristics

(Ta=25°C)

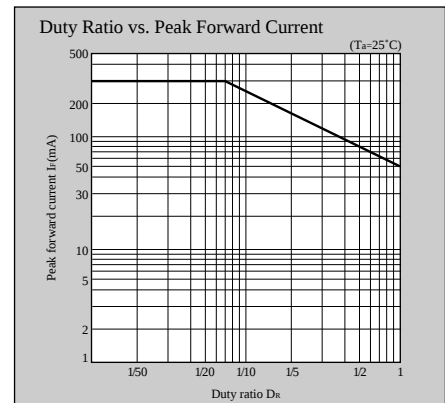
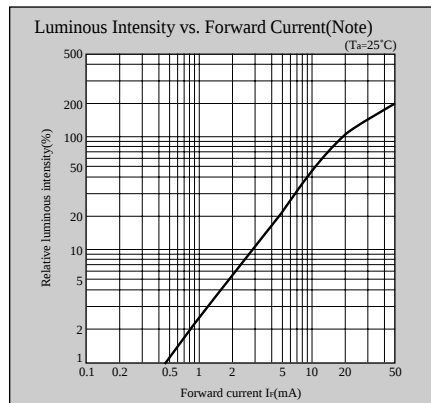
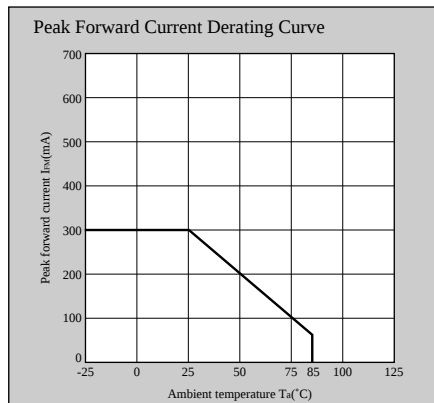
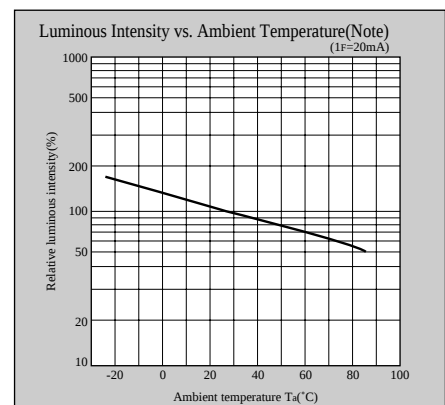
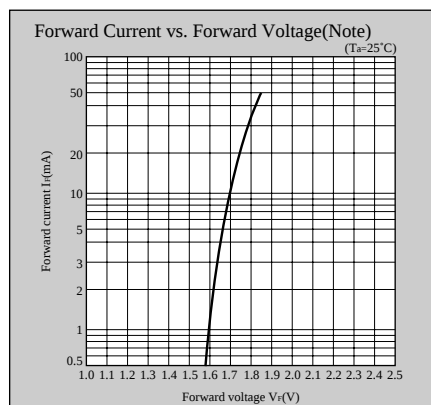
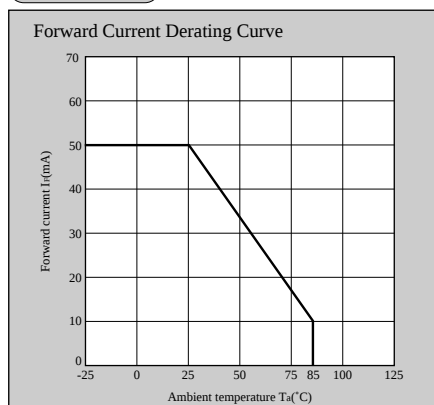
Lens type	Model No.	Forward voltage V _F (V)		Peak emission wavelength λ _p (nm)		Luminous intensity I _v (mcd)		Spectrum radiation bandwidth Δλ(nm)		Reverse current I _R (μA)		Terminal capacitance C _t (pF)		Page for characteristics diagrams
		TYP	MAX	TYP	I _F (mA)	TYP	I _F (mA)	TYP	I _F (mA)	MAX	V _R (V)	TYP	(MHz)	
Colorless transparency	GL5UR2K1	1.85	2.5	660	20	2 000	20	20	20	100	3	25	1	99
	GL5UR3K1	1.85	2.5	660	20	3 000	20	20	20	100	3	25	1	99
	GL5TR43	1.75	2.2	660	20	500	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)

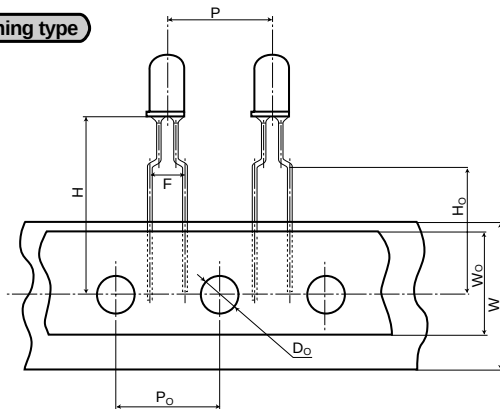
Taping Specifications

■ 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.

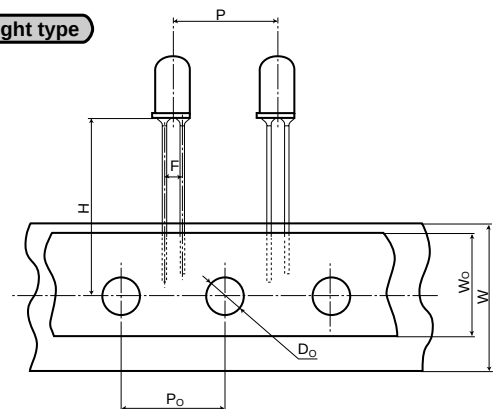
■ Taping specification(Unit : mm, TYP. value)

Forming type



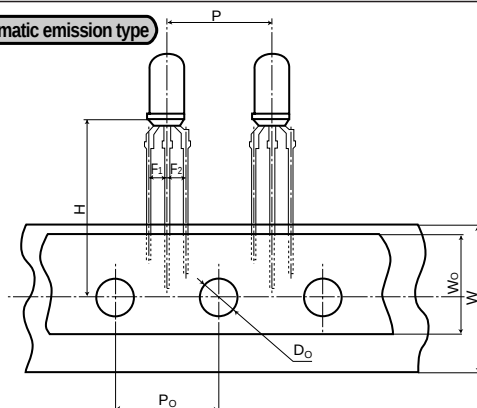
Parameter	Symbol	A	B	D
Case end height	H	23.35	19.5	21.5
Lead clinch height	H ₀	16.0		
Tape width	W	18.0		
Adhesive tape width	W ₀	13.0		
Product pitch	P	12.7		
Sprocket hole pitch	P ₀	12.7		
Lead pitch	F	5.0		
Sprocket hole diameter	D ₀	ø4.0		

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