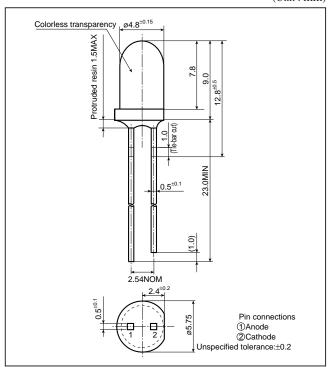
# GL5□□43 series/GL5UR2K1/GL5UR3K1

#### Outline Dimensions

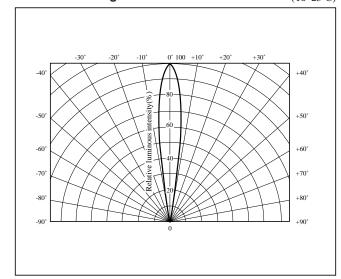
(Unit: mm)



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

### ■ Radiation Diagram

(Ta=25°C)



#### ■ Absolute Maximum Ratings

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

Model No.	Radiation color	Radiation material	Power dissipation	Forward current	Peak forward current Іғм	Derating factor (mA/°C)		Reverse voltage V <sub>R</sub>	Operating temperature  Topr	Storage temperature $T_{stg}$	Soldering temperature $T_{\rm sol}^{*3}$
			(mW)	(mA)	(mA)	DC	Pulse	(V)	(°C)	(°C)	(°C)
GL5UR2K1	Red(Super-luminosity)	GaA1As on GaA1As	75	30	50*1	0.40	0.67	4	-25 to +85	-25 to +100	260
GL5UR3K1	Red(Super-luminosity)	GaA1As on GaA1As	75	30	50*1	0.40	0.67	4	-25 to +85	-25 to +100	260
GL5TR43	Red(High-luminosity)	GaA1As on GaAs	110	50	300*2	0.67	4.00	5	-25 to +85	-25 to +100	260
GL5HJ43	Orange(Super-luminosity)	A1GaInP	130	50	100*1	0.67	1.33	4.1	-25 to +85	-25 to +100	260
GL5HV43	Yellow(Super-luminosity)	A1GaInP	130	50	100*1	0.67	1.33	4.1	-25 to +85	-25 to +100	260

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

## ■ Electro-optical Characteristics

(Ta=25°C)

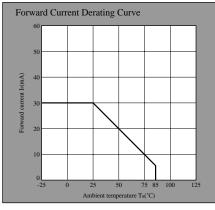
														(14-25 C)
Lens type	Model No.	Forward voltage $V_F(V)$		Peak emission wavelength		Luminous intensity		Spectrum radiation bandwidth		Reverse current		Terminal capacitance		Page for
				$\lambda_p(nm)$	IF	Iv(mcd)	IF	Δλ(nm)	IF	Ir(µA)	VR	C <sub>t</sub> (pF)		characteristics
		TYP	MAX	TYP	(mA)	TYP	(mA)	TYP	(mA)	MAX	(V)	TYP	(MHz)	diagrams
Colorless transparency	GL5UR2K1	1.85	2.5	660	20	2 000	20	20	20	100	3	25	1	$\rightarrow$
	GL5UR3K1	1.85	2.5	660	20	3 000	20	20	20	100	3	25	1	$\rightarrow$
	GL5TR43	1.75	2.2	660	20	500	20	20	20	10	4	30	1	$\rightarrow$
	GL5HJ43	1.9	2.6	620	20	3 000	20	18	20	100	4	26	1	$\rightarrow$
	GL5HV43	1.9	2.6	590	20	2 500	20	13	20	100	4	24	1	$\rightarrow$

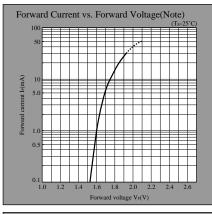
 <sup>(</sup>Notice)
 In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.

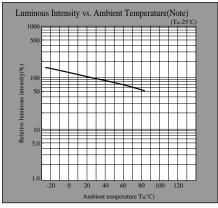
<sup>\*2</sup> Duty ratio=1/16, Pulse width≤1ms

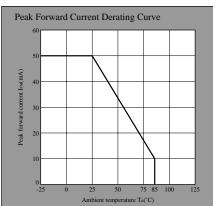
<sup>\*3 5</sup>s or less(At the position of 1.6mm or more from the bottom face of resin package)

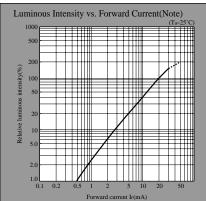
#### UR series

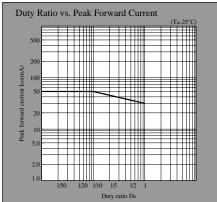




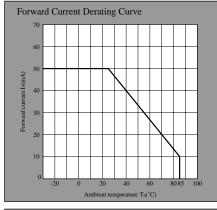


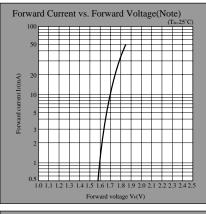


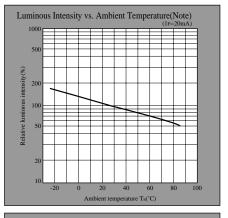


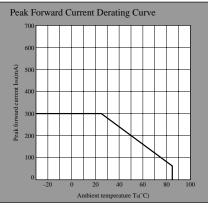


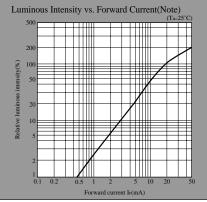
# TR series

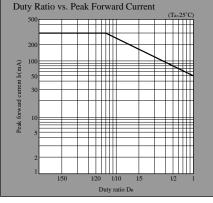








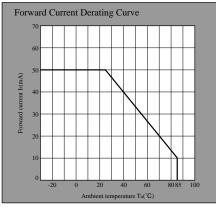


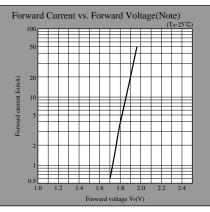


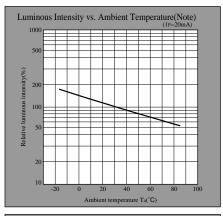
Note) Characteristics shown in diagrams are typical values. (not assurance value)

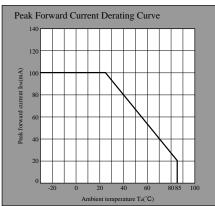
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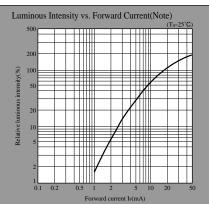
#### HV series

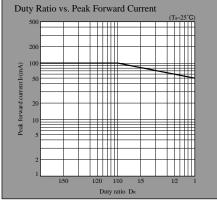




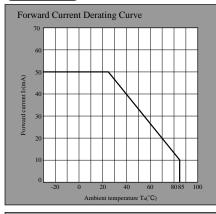


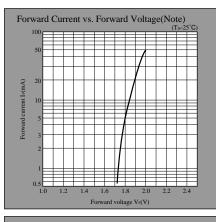


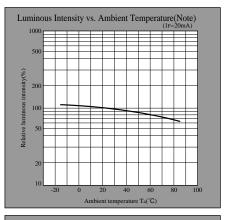


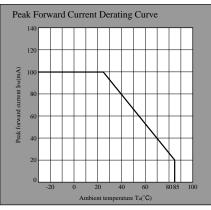


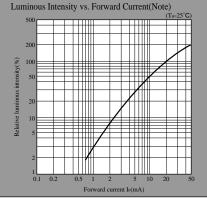
# HJ series

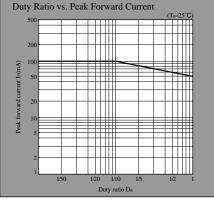












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