

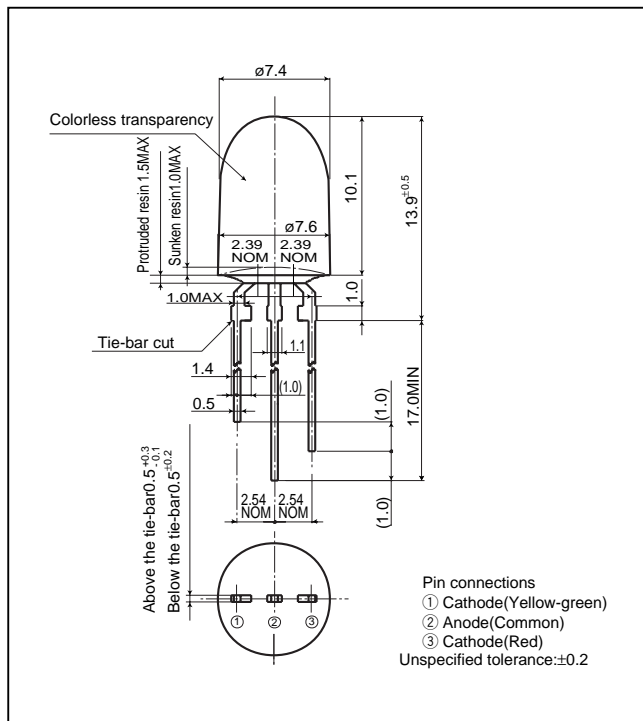
# LED Large Lamp

## LT970CUR

## ø7.4mm, Cylinder Type(Flangeless), Colorless Transparency, Wide Viewing Angle,Dichromatic Large LED Lamp

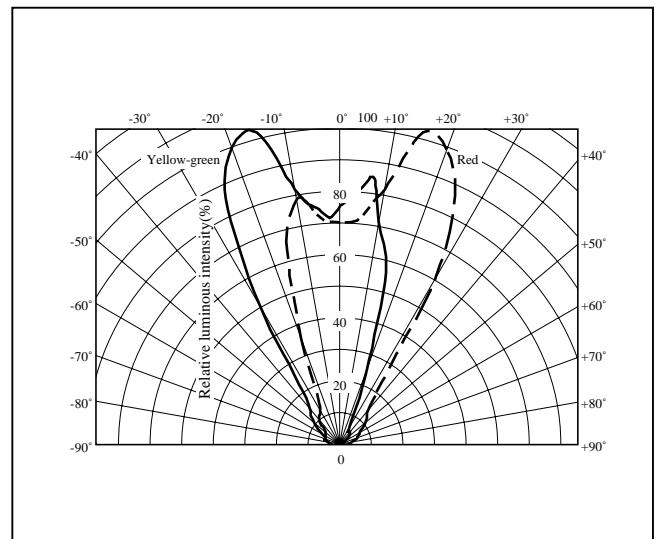
### Outline Dimensions

(Unit : mm)



### Directive Characteristics

(T<sub>a</sub>=25°C)



### Absolute Maximum Ratings

(T<sub>a</sub>=25°C)

Model No.	Emitting color	Material	Power dissipation P <sup>*1</sup> (mW)	Forward current I <sub>F</sub> (mA)	Peak forward current I <sub>FM</sub> <sup>*2</sup> (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> <sup>*3</sup> (°C)
						DC	Pulse				
LT970CUR	Yellow-green	GaP	140	50 <sup>*4</sup>	100	0.67	1.34	5	-30 to +85	-30 to +100	260
	Red(Super-luminosity)	GaAlAs on GaAlAs	75	30	50	0.40	0.67	4			

\*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)

\*4 Yellow-green: Please use at I<sub>F</sub>≤30mA when it is continuously lightened.

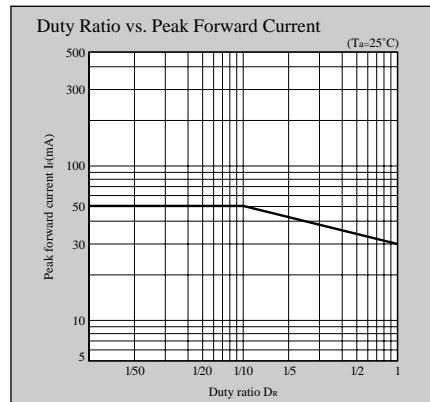
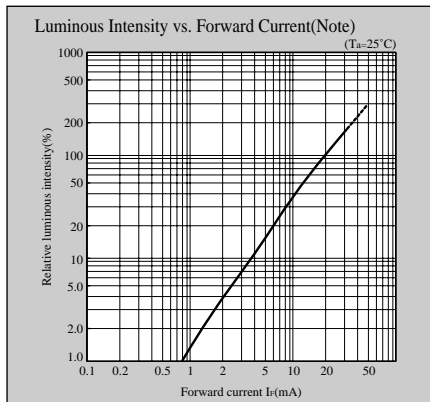
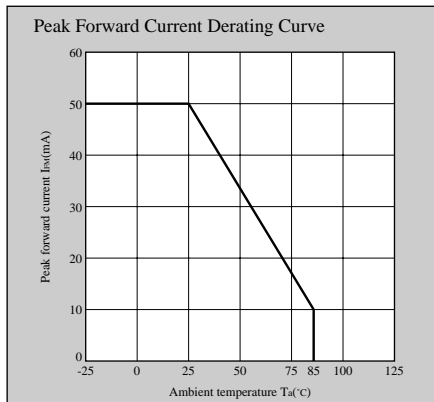
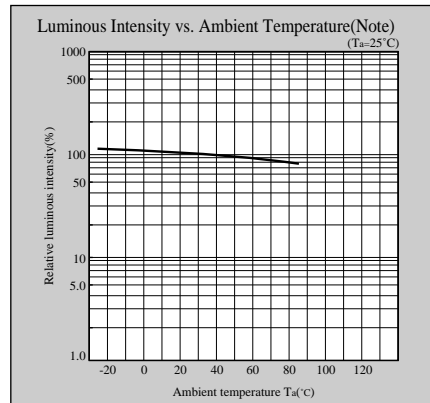
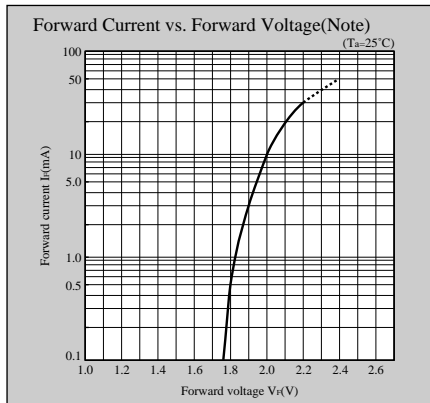
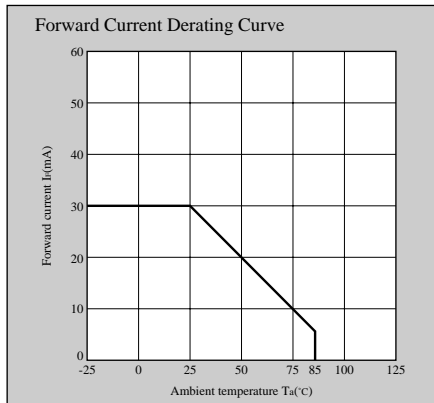
### Electro-optical Characteristics

(T<sub>a</sub>=25°C)

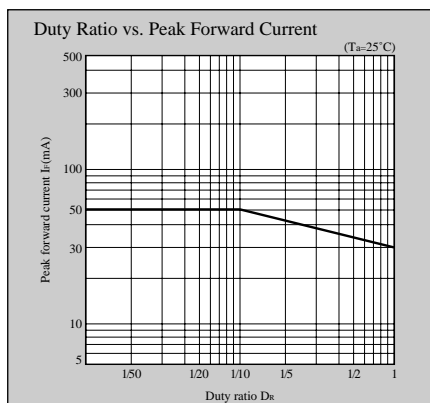
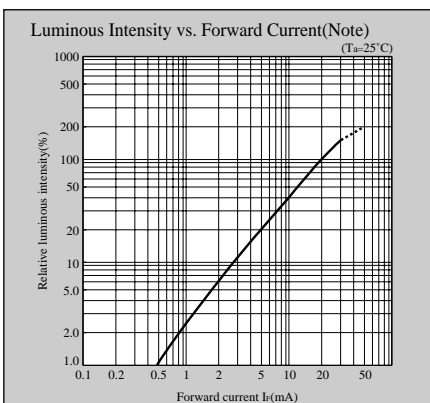
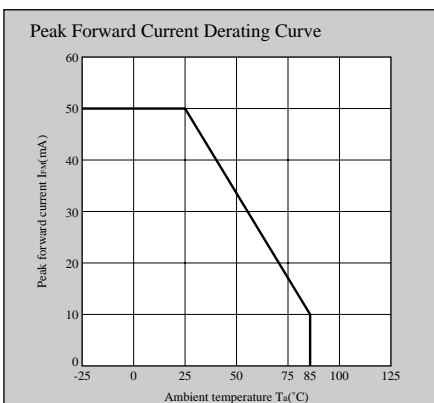
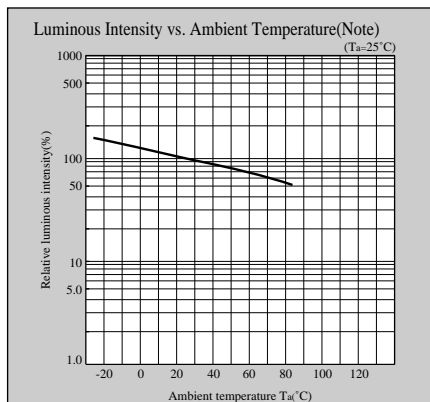
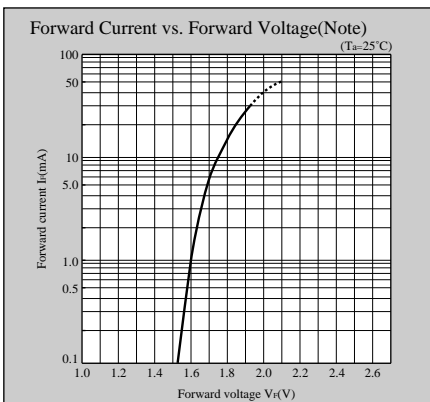
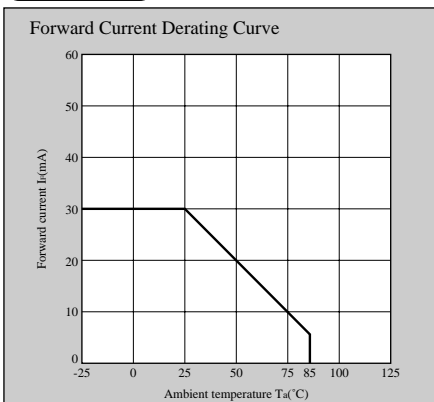
Lens type	Model No.	Radiation color	Forward voltage V <sub>F</sub> (V)		Peak emission wavelength λ <sub>p</sub> (nm)		Luminous intensity I <sub>v</sub> (mcd)		Spectrum radiation bandwidth Δλ(nm)		Reverse current I <sub>R</sub> (μA)		Terminal capacitance C <sub>t</sub> (pF)		Page for characteristics diagrams
			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)	
Colorless transparency	LT970CUR	Yellow-green	2.1	2.8	565	20	75	20	30	20	10	4	35	1	a
		Red	1.85	2.5	660	20	250	20	20	20	100	3	25	1	b

# Characteristics Diagrams

## EG,E,F,C series Characteristics Diagrams [a]



## UR,U series Characteristics Diagrams [b]



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

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.

Internet Internet address for Electronic Components Group <http://sharp-world.com/ecg/>

# 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)

