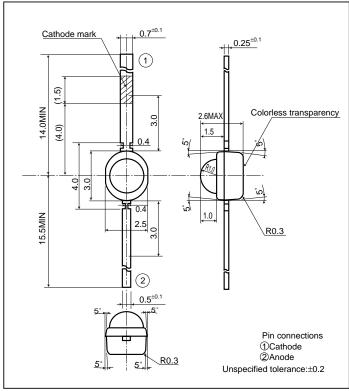
# LT1□21A series

# ■ Outline Dimensions

(Unit:mm)

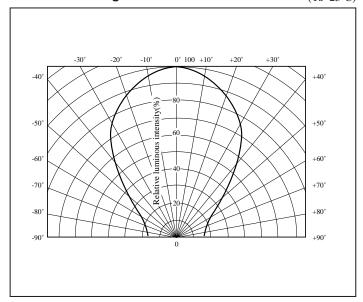


T type: There is Anode mark on the device because polarity faces in the opposite direction.

# ø2mm, Straight Type, Colorless Transparency, Compact LED Lamp for Backlight/Indicator

#### **■** Radiation Diagram

(Ta=25°C)



#### ■ Absolute Maximum Ratings

(Ta=25°C)

Model No.	Radiation color	Radiation material	Power dissipation P	Forward current IF	Peak forward current  IFM*1	Derating factor (mA/°C)		Reverse voltage V <sub>R</sub>	Operating temperature  Topr	Storage temperature $T_{\mathrm{stg}}$	Soldering temperature $\mathbf{T}_{\mathrm{sol}}^{*2}$
			(mW)	(mA)	(mA)	DC	Pulse	(V)	(°C)	(°C)	(°C)
LT1T21A	Red(High-luminosity)	GaAlAs on GaAs	66	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
LT1P21A	Red	GaP	23	10	50	0.13	0.67	5	-25 to +85	-25 to +100	260
LT1D21A	Red	GaAsP on GaP	85	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
LT1S21A	Sunset orange	GaAsP on GaP	85	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
LT1H21A	Yellow	GaAsP on GaP	50	20	50	0.27	0.67	5	-25 to +85	-25 to +100	260
LT1E21A	Yellow-green	GaP	50	20	50	0.27	0.67	5	-25 to +85	-25 to +100	260

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

## **■** Electro-optical Characteristics

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

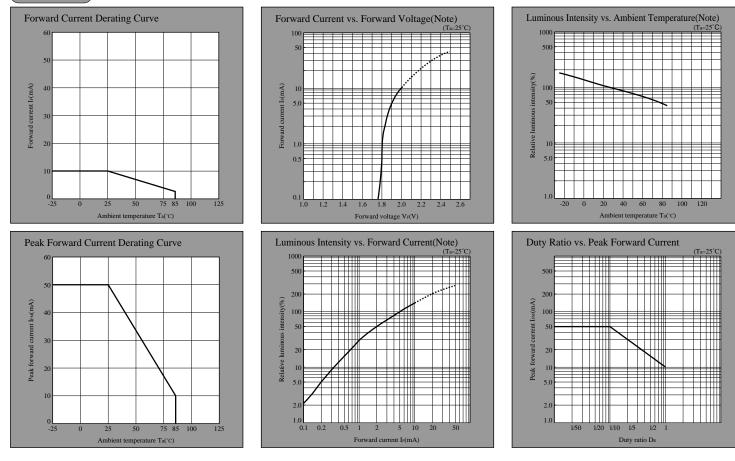
Lens type	Model No.	Forward voltage V <sub>F</sub> (V)		Peak emission wavelength		Luminous intensity		Spectrum radiation bandwidth		Reverse current		Terminal capacitance		Page for
				λ <sub>p</sub> (nm) I <sub>F</sub>		Iv(mcd) IF	$\Delta\lambda(nm)$ If		Ir(µA) Vr			characteristics		
		TYP	MAX	TYP	(mA)	TYP	(mA)	TYP	(mA)	MAX	(V)	TYP	(MHz)	diagrams
Colorless transparency	LT1T21A	1.75	2.2	660	20	19.0	20	20	20	10	4	30	1	$\rightarrow$
	LT1P21A	1.9	2.3	695	5	2.6	5	100	5	10	4	55	1	$\rightarrow$
	LT1D21A	2.0	2.8	635	20	14.4	20	35	20	10	4	20	1	$\rightarrow$
	LT1S21A	2.0	2.8	610	20	14.0	20	35	20	10	4	15	1	$\rightarrow$
	LT1H21A	1.9	2.5	585	10	4.5	10	30	10	10	4	35	1	$\rightarrow$
	LT1E21A	1.95	2.5	565	10	9.1	10	30	10	10	4	35	1	$\rightarrow$

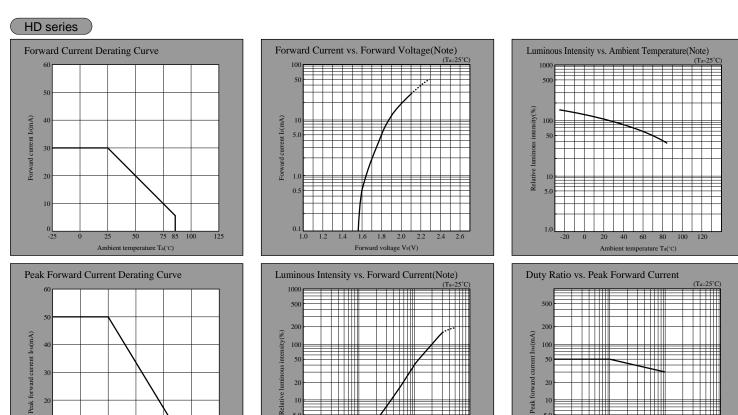
 <sup>(</sup>Notice)
 In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using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

<sup>\*2</sup> At the position of 3mm or more from the resin package

<sup>(</sup>Internet) • Data for sharp's optoelectronic/power device is provided for internet.(Address http://www.sharp.co.jp/ecg/)

#### PR series





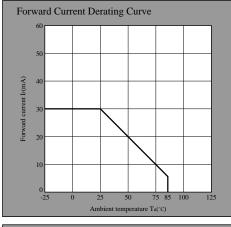
Note) Characteristics shown in diagrams are typical values. (not assurance value)

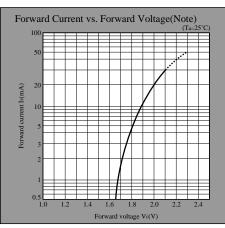
(Notice)
 In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP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

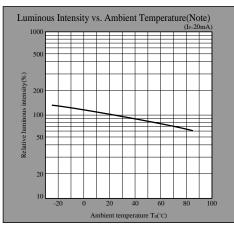
Forward current I<sub>F</sub>(mA)

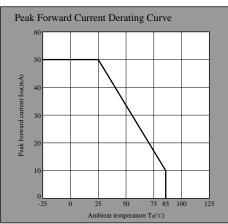
Duty ratio DR

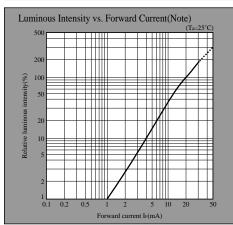
#### **HS** series

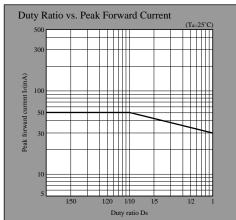




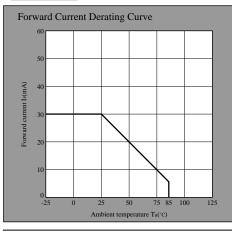


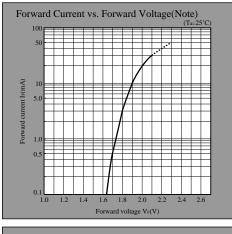


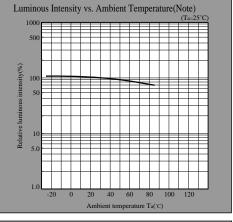


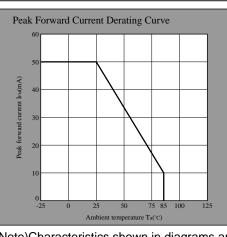


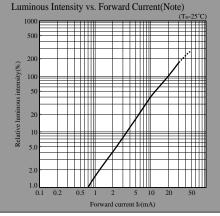
#### HY series

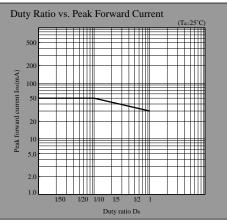








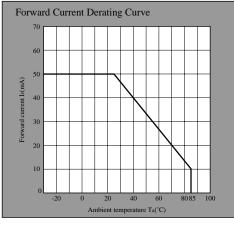


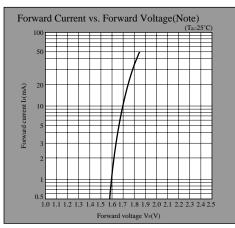


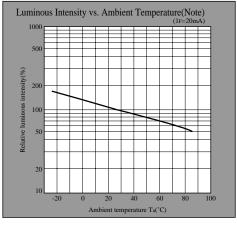
Note)Characteristics shown in diagrams are typical values. (not assurance value)

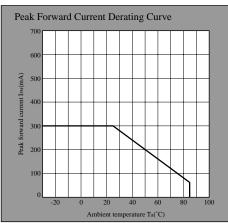
(Notice) In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP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

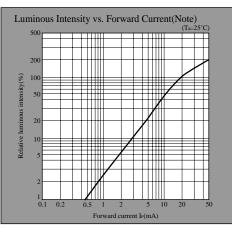
## TR series

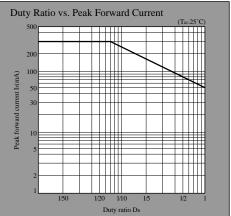






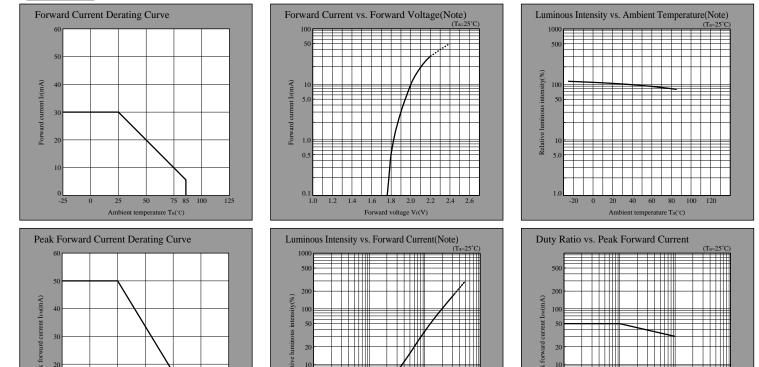






Note)Characteristics shown in diagrams are typical values. (not assurance value)

### EG series



1/20 1/10

Duty ratio D<sub>R</sub>

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

Ambient temperature Ta(°C)

5.0