(Ta=25°C)

+40°

+60°

 $+80^{\circ}$

+40°

+60

 $+80^{\circ}$

ED Lamp

LT1 92A series

3030 Size, 1.1mm Thickness, **MID*** Type Dichromatic Leadless **Chip LED Devices**

100

80

60

40

20

0 h d

> x 0

100

80

60

40

[Anode]

 $\cdot 20$

[Cathode]

+20

-40

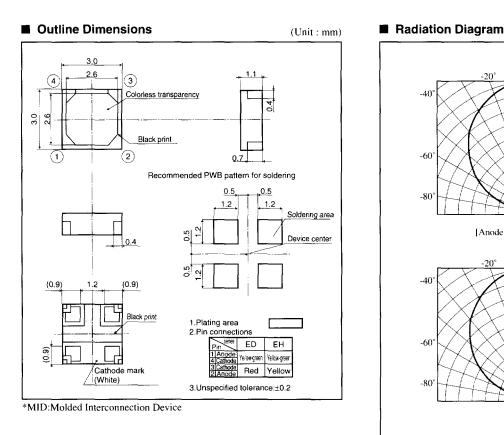
-60

-80

-40

-60

-80



Absolute Maximum Ratings¹¹

$(T_a=25^{\circ}C)$ Derating factor Power dissipation Forward current Peak forward current Reverse voltage Soldering temperature Operating temperature Storage temperature (mA/°C) IFM^{*2} Tstg Model No. Radiation color Radiation material P IF Tsol*3 VR Topr (mW) (mA) (V) (°C) (mA) (°C) (°C) DC Pulse Yellow-green GaP 84 30 50 0.40 0.67 5 -25 to +85 -25 to +100 260 LT1ED92A GaAsP on GaP 84 30 50 0.40 0.67 5 -25 to +85 -25 to +100 260 Red 30 -25 to +85 -25 to +100 84 50 0.40Yellow-green GaP 0.67 5 260 LT1EH92A GaAsP on GaP 84 30 0.67 -25 to +85 -25 to +100 Yellow 50 0.40 5 260

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 For 3s or less at the temperature of hand soldering. Temperature of reflow soldering is shown on the page 7.

Electro-optical Characteristics

Notice

Internet

	Electro-optical Characteristics (Ta=2)														
Lens type	Model No.	Radiation color	VP(V)		Peak emission wavelength		Luminous intensity		Spectrum radiation bandwidth		Reverse current		Terminal capacitance		Page for
					λ _p (nm)	IF	Iv(mcd)	IF	Δλ(nm)	ĪF	Ir(µA)	VR	C ₀ (pF)	(MHz)	characteristics
			TYP	MAX	TYP	(mA)	TYP	(mA)	TYP	(mA)	MAX	(V)	TYP	(MITZ)	diagrams
Colorless transparency	LT1ED92A	Yellow-green	2.2	2.8	565	20	32.0	20	30	20	10	4	8	1	140
		Red	2.0	2.8	635	20	16.0	20	35	20	10	4	20	1	138
	LT1EH92A	Yellow-green	2.2	2.8	565	20	32.0	20	30	20	10	4	8	1	140
		Yellow	2.0	2.8	585	20	16.0	20	30	20	10	4	35	1	139

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 address for Electronic Components Group http://www.sharp.co.ip/ecp/from http://www.cligchip.com at this page