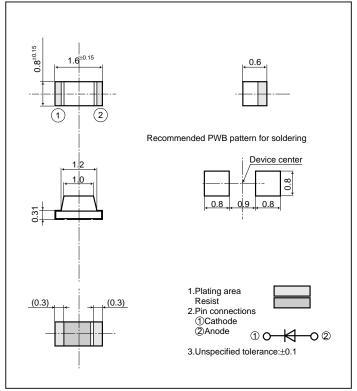
LT1□97A series

1608 Size, Super Thin Type(0.6mm), Leadless Chip LED Devices

■ Outline Dimensions

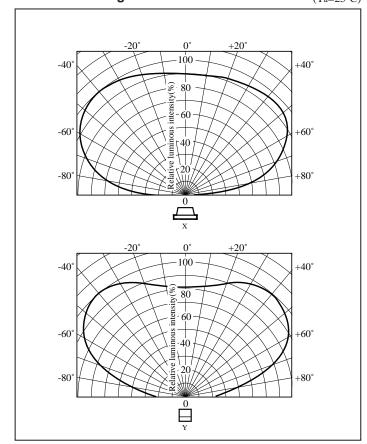
(Unit: mm)



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

■ Radiation Diagram

(Ta=25°C)



■ Absolute Maximum Ratings

(Ta=25°C)

											(1a-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 _R	Operating temperature $\mathbf{T}_{\mathrm{opr}}$	Storage temperature T_{stg}	Soldering temperature $\mathbf{T_{sol}}^{*2}$
			(mW)	(mA)	(mA)	DC	Pulse	(V)	(°C)	(°C)	(°C)
LT1U97A	Red(Super-luminosity)	GaAlAs on GaAlAs	75	30	50	0.40	0.67	5	-30 to +85	-40 to +100	350
LT1P97A	Red	GaP	23	10	50	0.13	0.67	5	-30 to +85	-40 to +100	350
LT1D97A	Red	GaAsP on GaP	84	30	50	0.40	0.67	5	-30 to +85	-40 to +100	350
LT1S97A	Sunset orange	GaAsP on GaP	84	30	50	0.40	0.67	5	-30 to +85	-40 to +100	350
LT1H97A	Yellow	GaAsP on GaP	84	30	50	0.40	0.67	5	-30 to +85	-40 to +100	350
LT1E97A	Yellow-green	GaP	84	30	50	0.40	0.67	5	-30 to +85	-40 to +100	350
LT1K97A	Green	GaP	84	30	50	0.40	0.67	5	-30 to +85	-40 to +100	350

^{*1} Duty ratio=1/10, Pulse width=0.1ms

■ Electro-optical Characteristics

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

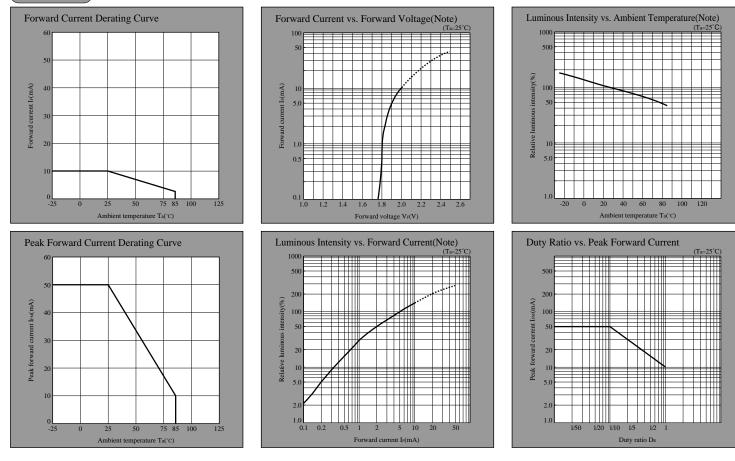
	Model No.	Forward voltage V _F (V)		Peak emission wavelength		Luminous intensity		Spectrum radiation bandwidth		Reverse current		Terminal capacitance		Page for
Lens type				$\lambda_p(nm)$	λ _p (nm) I _F		Iv(mcd) IF	Δλ(nm) If		Ir(µA) Vr		C _t (pF)	characteristics	
		TYP	MAX	TYP	(mA)	TYP	(mA)	TYP	(mA)	MAX	(V)	TYP	(MHz)	diagrams
Milky diffusion	LT1U97A	1.85	2.5	660	20	35.3	20	20	20	100	3	25	1	\rightarrow
	LT1P97A	1.9	2.3	695	5	1.6	5	100	5	10	4	55	1	\rightarrow
	LT1D97A	2.0	2.8	635	20	11.0	20	35	20	10	4	20	1	\rightarrow
	LT1S97A	2.0	2.8	610	20	8.2	20	35	20	10	4	15	1	\rightarrow
	LT1H97A	2.0	2.8	585	20	9.8	20	30	20	10	4	35	1	\rightarrow
	LT1E97A	2.1	2.8	565	20	23.0	20	30	20	10	4	35	1	\rightarrow
	LT1K97A	2.1	2.8	555	20	4.5	20	25	20	10	4	40	1	\rightarrow

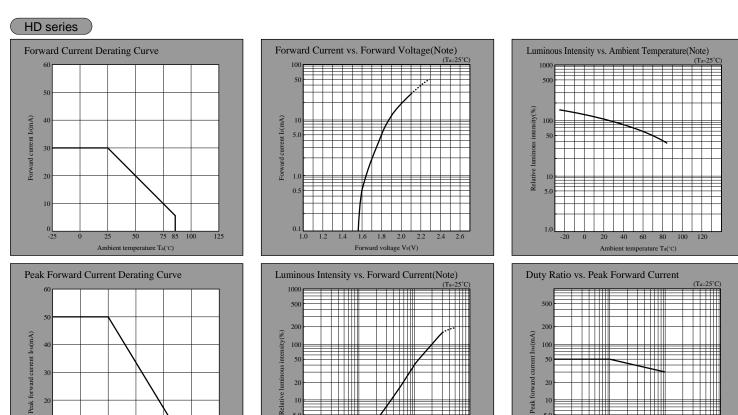
⁽Notice) • In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP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

^{*2} For 3s or less at the temperature of hand soldering. Temperature of reflow soldering is shown on the below page.

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

PR series





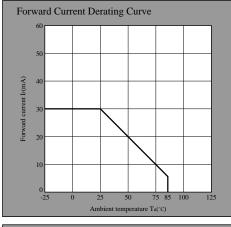
Note) Characteristics shown in diagrams are typical values. (not assurance value)

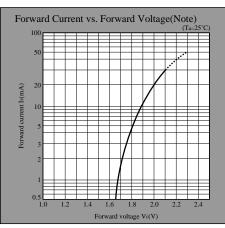
(Notice)
 In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP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

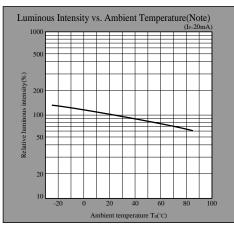
Forward current I_F(mA)

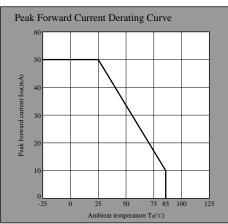
Duty ratio DR

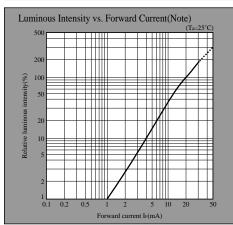
HS series

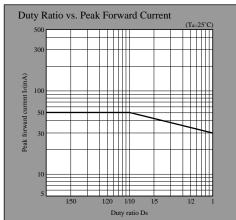




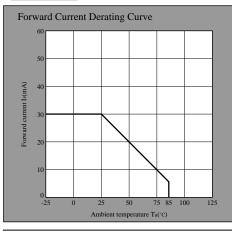


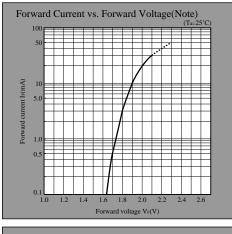


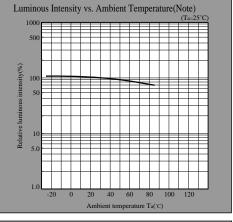


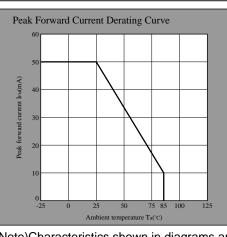


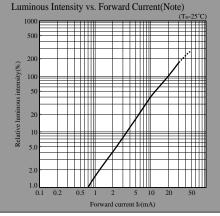
HY series

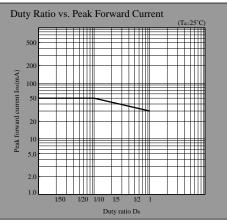








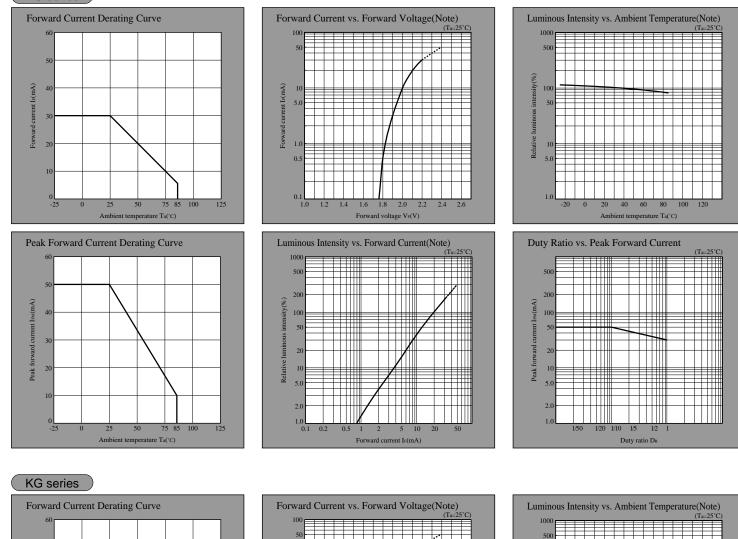


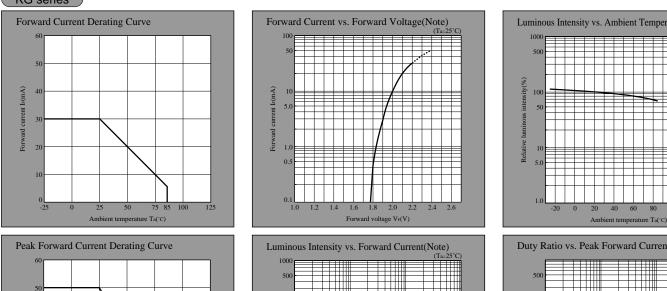


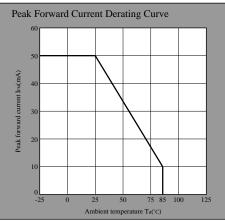
Note)Characteristics shown in diagrams are typical values. (not assurance value)

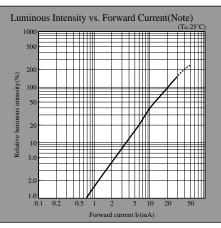
(Notice) In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP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

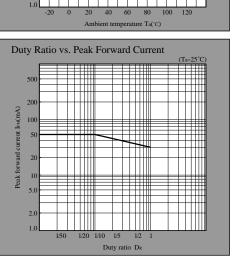
EG series







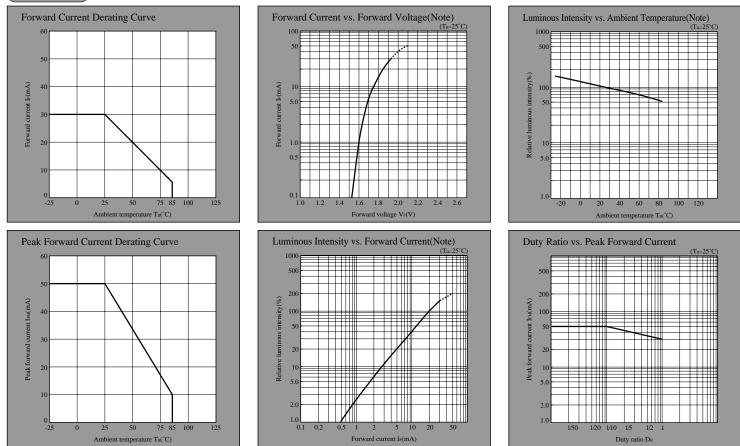




Note) Characteristics shown in diagrams are typical values. (not assurance value)

(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.

UR series



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