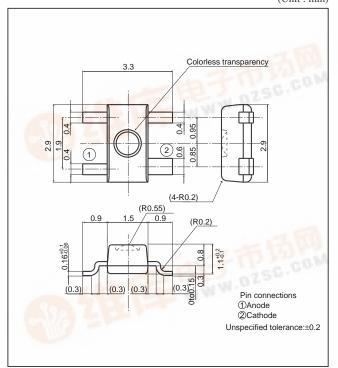
Chip LED Device

LT1□82A series

LT1□82A series

■ Outline Dimensions

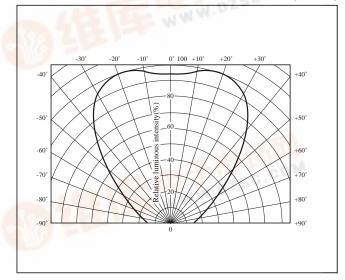
(Unit:mm) ■ R



3.3×2.9mm, 1.1mm Thickness, High-luminosity Chip LED Devices with Lens

■ Radiation Diagram

(Ta=25°C)



U,T type:Polarity faces in the opposite direction.

■ Absolute Maximum Ratings

(Ta=25°C)

Model No.	Radiation color		Power dissipation Forward current P IF (mW) (mA)		Peak forward current IFM*1 (mA)	Derating factor (mA/°C) DC Pulse		Reverse voltage V _R (V)	Operating temperature Topr (°C)	Storage temperature T_{stg} (°C)	Soldering temperature $\mathbf{T_{sol}}^{*2}$ (°C)	
LT1U82A	Red(Super-luminosity)	GaAlAs on GaAlAs	75	30	50	0.40	0.67	4	-25 to +85	-25 to +100	350	
LT1T82A	Red(High-luminosity)	GaAlAs on GaAs	66	30	50	0.40	0.67	5	-25 to +85	-25 to +100	350	
LT1P82A	Red	GaP	23	10	50	0.13	0.67	5	-25 to +85	-25 to +100	350	
LT1D82A	Red	GaAsP on GaP	85	30	50	0.40	0.67	5	-25 to +85	-25 to +100	350	
LT1S82A	Sunset orange	GaAsP on GaP	85	30	50	0.40	0.67	5	-25 to +85	-25 to +100	350	
LT1H82A	Yellow	GaAsP on GaP	50	20	50	0.27	0.67	5	-25 to +85	-25 to +100	350	
LT1E82A	Yellow-green	GaP	50	20	50	0.27	0.67	5	-25 to +85	-25 to +100	350	
LT1K82A	Green	GaP	50	20	50	0.27	0.67	5	-25 to +85	-25 to +100	350	

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

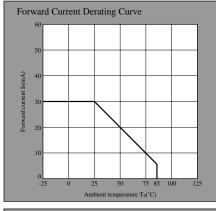
■ Electro-optical Characteristics

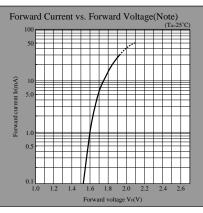
(Ta=25°C)

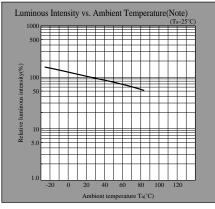
	Model No.	Forward voltage V _F (V)		Peak emission wavelength		Luminous intensity		Spectrum radiation bandwidth		Reverse current		Terminal capacitance		Page for
Lens type				λ _p (nm) I _F		Iv(mcd)	I_{F}	$\Delta\lambda(nm)$	I_{F}	Ir(µA)	VR	C _t (pF)	0.577	characteristics
	100	TYP	MAX	TYP	(mA)	TYP	(mA)	TYP	(mA)	MAX	(V)	TYP	(MHz)	diagrams
A	LT1U82A	1.85	2.5	660	20	54.0	20	20	20	100	3	25	1	\rightarrow
	LT1T82A	1.75	2.2	660	20	13.1	20	20	20	10	4	30	1	\rightarrow
100	LT1P82A	1.9	2.3	695	5	1.6	5	100	5	10	4	55	1	\rightarrow
Colorless	LT1D82A	2.0	2.8	635	20	14.4	20	35	20	10	4	20	1	\rightarrow
transparency	LT1S82A	2.0	2.8	610	20	11.7	20	35	20	10	4	15	1	\rightarrow
	LT1H82A	1.9	2.5	585	10	5.6	10	30	10	10	4	35	1	\rightarrow
	LT1E82A	1.95	2.5	565	10	7.8	10	30	10	10	4	35	1	\rightarrow
+44 	LT1K82A	1.95	2.5	555	10	2.7	10	25	10	10	4	40	1	\rightarrow

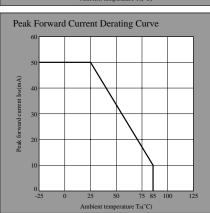
^{*2} For 3s or less at the temperature of hand soldering. Temperature of reflow soldering is shown on the below page.

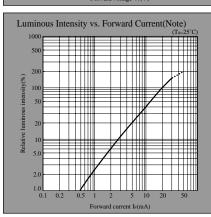
UR series

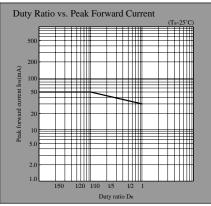




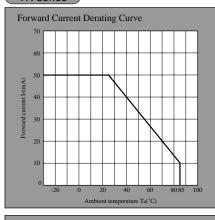


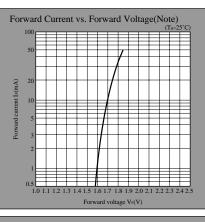


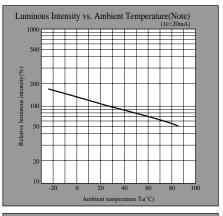


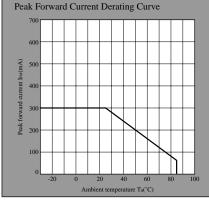


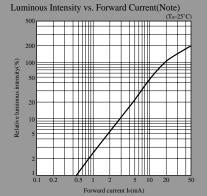
TR series

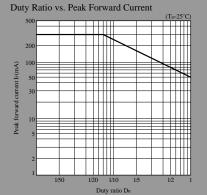






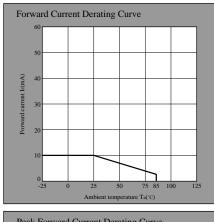


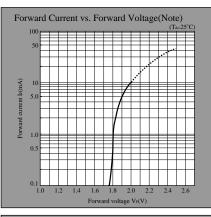


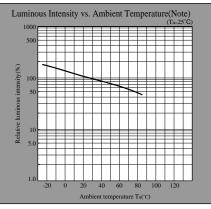


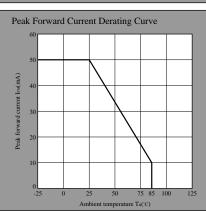
Note)Characteristics shown in diagrams are typical values. (not assurance value)

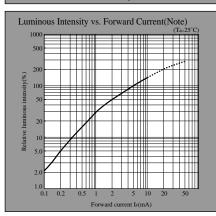
PR series

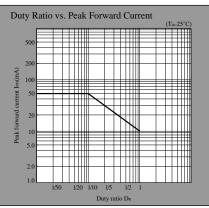




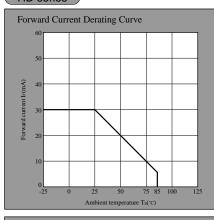


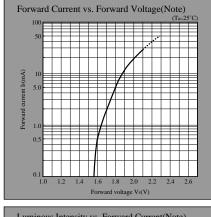


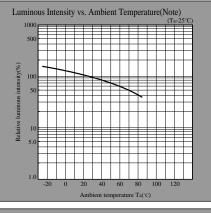


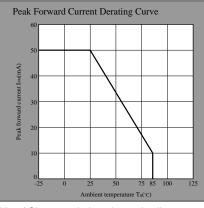


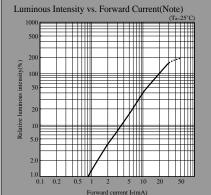
HD series

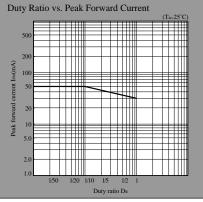






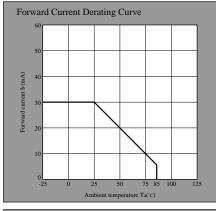


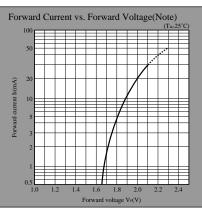


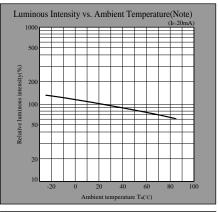


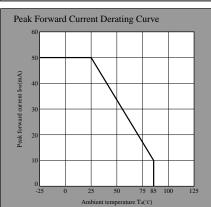
Note) Characteristics shown in diagrams are typical values. (not assurance value)

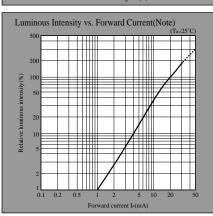
HS series

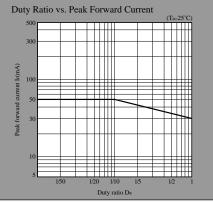




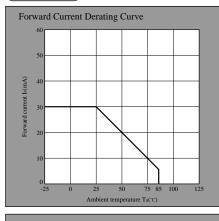


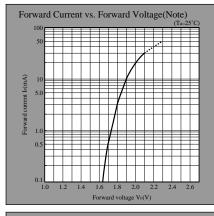


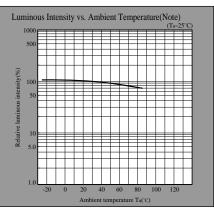


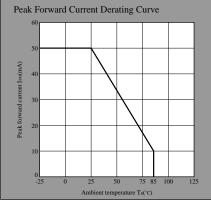


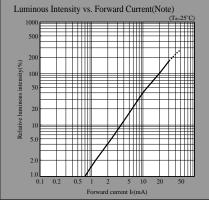
HY series

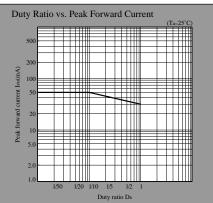






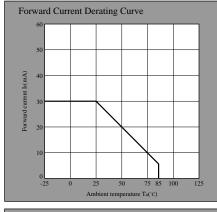


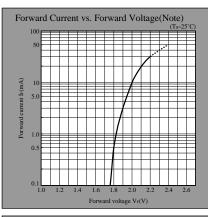


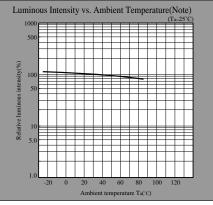


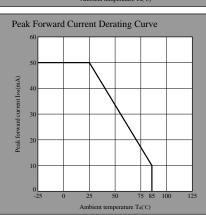
Note) Characteristics shown in diagrams are typical values. (not assurance value)

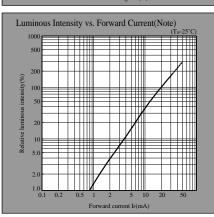
EG series

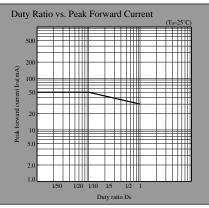




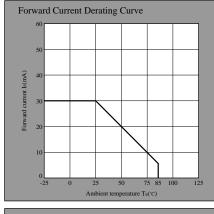


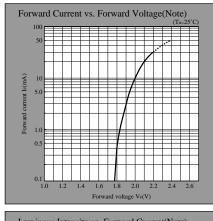


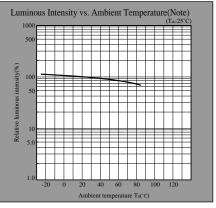


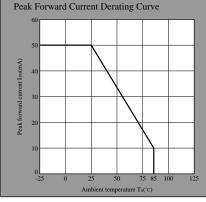


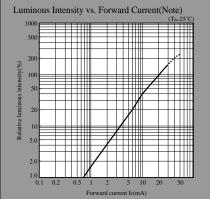
KG series

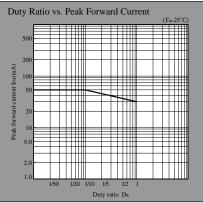












Note) Characteristics shown in diagrams are typical values. (not assurance value)