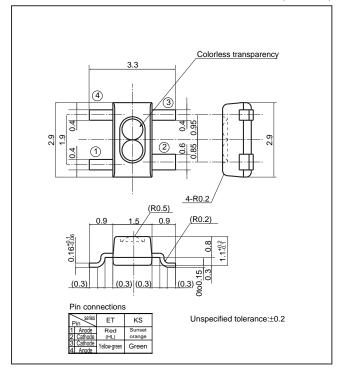
LT1□□82A series

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

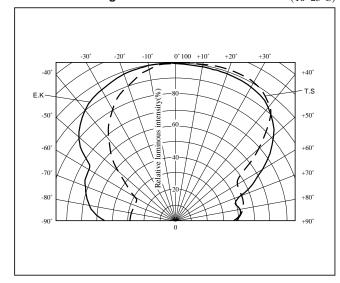
■ Outline Dimensions





■ Radiation Diagram

(Ta=25°C)



■ Absolute Maximum Ratings*

(Ta=25°C)

Model No.	Radiation color	Radiation material	Power dissipation P (mW)	Forward current IF (mA)	Peak forward current IFM*1 (mA)	Derating factor (mA/°C) DC Pulse		Reverse voltage VR (V)	Operating temperature Topr (°C)	Storage temperature T _{stg} (°C)	Soldering temperature T_{sol}^{*2} (°C)	
LT1ET82A	Yellow-green	GaP	50	20	50	0.27	0.67	5	-25 to +85	-25 to +100	350	
	Red(High-luminosity)	GaAIAs on GaAs	66	30	50	0.40	0.67	5	-25 to +85	-25 to +100	350	
LT1KS82A	Green	GaP	50	20	50	0.27	0.67	5	-25 to +85	-25 to +100	350	
	Sunset orange	GaAsP on GaP	85	30	50	0.40	0.67	5	-25 to +85	-25 to +100	350	

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.

■ Electro-optical Characteristics

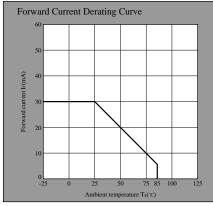
(Ta=25°C)

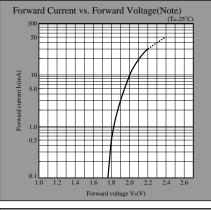
Lens type	Model No.	Radiation color	Forward voltage F		Peak emission wavelength		Luminous intensity		Spectrum radiation bandwidth		Reverse current		Terminal capacitance		Page for
					$\lambda_p(nm)$	ım) If	Iv(mcd)	IF	Δλ(nm)	IF	Ir(µA)	V_{R}	C _t (pF)	O III \	characteristics
			TYP	MAX	TYP	(mA)	TYP	(mA)	TYP	(mA)	MAX	(V)	TYP	(MHz)	diagrams
Colorless	LT1ET82A	Yellow-green	1.95	2.5	565	10	7.0	10	30	10	10	4	35	1	\rightarrow
		Red(High-luminosity)	1.75	2.2	660	20	11.8	20	20	20	10	4	30	1	\rightarrow
	ILT1KS82AF	Green	1.95	2.5	555	10	2.4	10	25	10	10	4	40	1	\rightarrow
		Sunset orange	2.0	2.8	610	20	10.5	20	35	20	10	4	15	1	\rightarrow

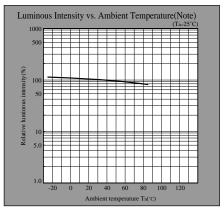
^{*1} Duty ratio=1/10, Pulse width=0.1ms

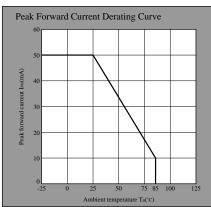
^{*2} For 3s or less at the temperature of hand soldering. Temperature of reflow soldering is shown on the below page.

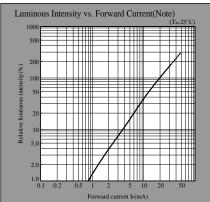
EG series

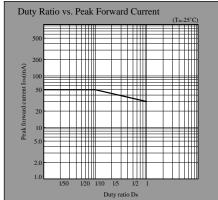




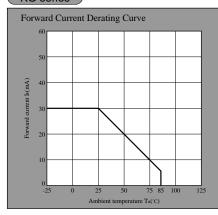


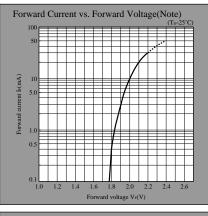


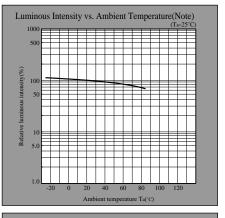


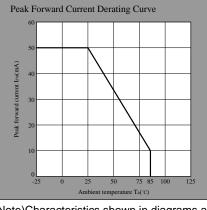


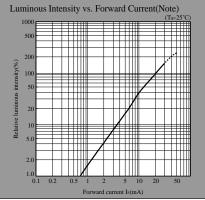
KG series

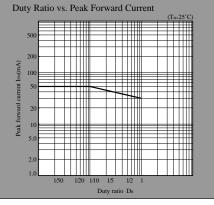






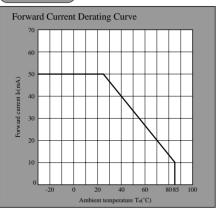


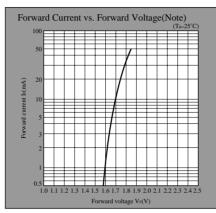


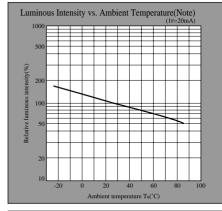


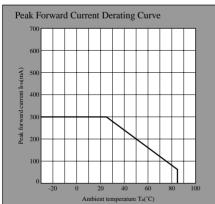
Note) Characteristics shown in diagrams are typical values. (not assurance value)

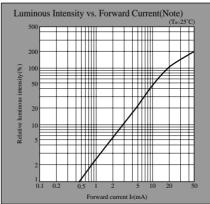
TR series

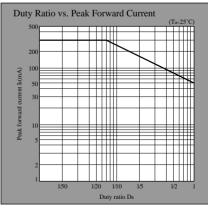






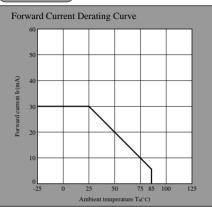


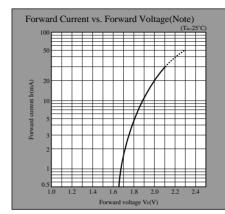


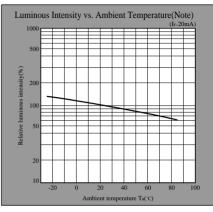


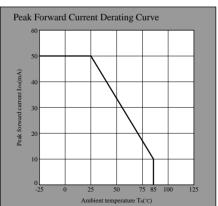
Note)Characteristics shown in diagrams are typical values. (not assurance value)

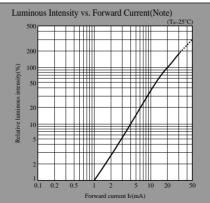
HS series

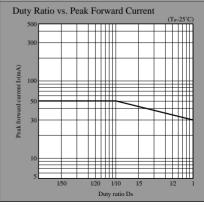












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