Chip LED Device

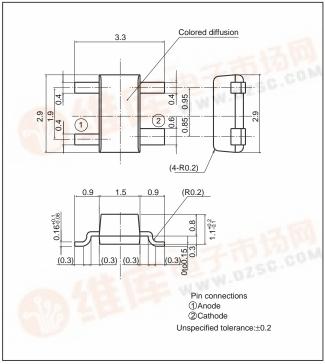
LT1□51A series

LT1□51A series

3.3×2.9mm, 1.1mm Thickness, Colored Diffusion Chip LED Devices

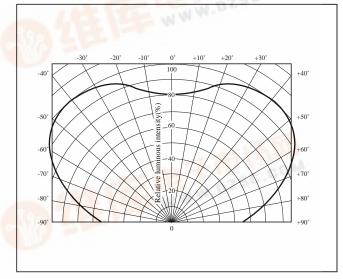
■ Outline Dimensions

(Unit: mm) ■ R



■ 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 (mA)	Deratin (mA		Reverse voltage V _R (V)	Operating temperature Topr (°C)	Storage temperature T _{stg} (°C)	Soldering temperature Tsol*3 (°C)
LT1T51A	Red(High-luminosity)	GaAlAs on GaAs	66	30	50	0.40	0.67	5	-25 to +85	-25 to +100	350
LT1P51A	Red	GaP	23	10	50	0.13	0.67	5	-25 to +85	-25 to +100	350
LT1D51A	Red	GaAsP on GaP	85	30	50	0.40	0.67	5	-25 to +85	-25 to +100	350
LT1S51A	Sunset orange	GaAsP on GaP	85	30	50	0.40	0.67	5	-25 to +85	-25 to +100	350
LT1H51A	Yellow	GaAsP on GaP	50	20	50	0.27	0.67	5	-25 to +85	-25 to +100	350
LT1E51A	Yellow-green	GaP	50	20	50	0.27	0.67	5	-25 to +85	-25 to +100	350
LT1K51A	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

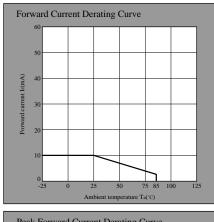
(Ta=25°C)

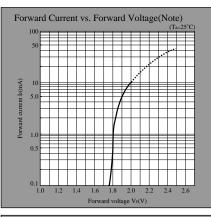
														` /
	Model No.	Forward voltage V _F (V)		Peak emission wavelength		Luminous intensity		Spectrum radiation bandwidth		Reverse current		Terminal capacitance		Page for
Lens type				$\lambda_p(nm)$	IF	Iv(mcd)	IF	Δλ(nm)	I_{F}	Ir(µA)	VR	C _t (pF)	(3.677.)	characteristics
		TYP	MAX	TYP	(mA)	TYP	(mA)	TYP	(mA)	MAX	(V)	TYP	(MHz)	diagrams
Colored diffusion	LT1T51A	1.75	2.2	660	20	9.0	20	20	20	10	4	30	1	\rightarrow
	LT1P51A	1.9	2.3	695	5	1.1	5	100	5	10	4	55	1	\rightarrow
	LT1D51A	2.0	2.8	635	20	8.4	20	35	20	10	4	20	1	\rightarrow
	LT1S51A	2.0	2.8	610	20	6.8	20	35	20	10	4	15	1	\rightarrow
	LT1H51A	1.9	2.5	585	10	3.3	10	30	10	10	4	35	1	\rightarrow
	ЬТ 1Е51А	1.95	2.5	565	10	3.6	10	30	10	10	4	35	1	\rightarrow
	LT1K51A	1.95	2.5	555	10	1.7	10	25	10	10	4	40	1	\rightarrow

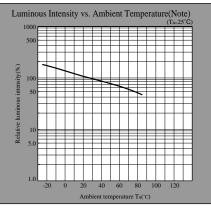
T type: Polarity faces in the opposite direction.

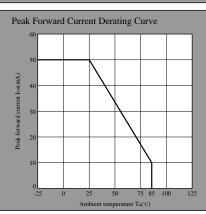
^{*2} For 3s or less at the temperature of hand soldering. Temperature of reflow soldering is shown on the below page.

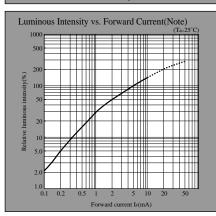
PR series

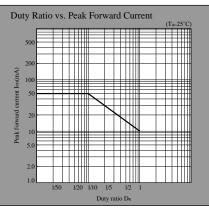




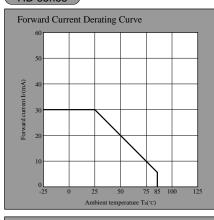


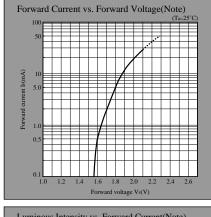


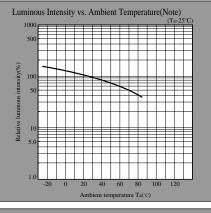


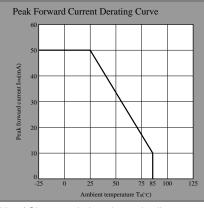


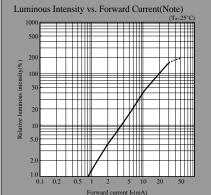
HD series

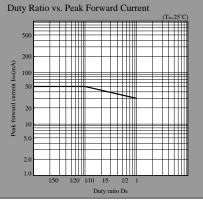






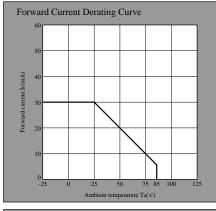


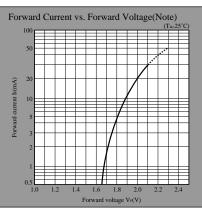


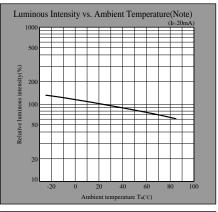


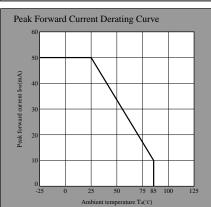
Note) Characteristics shown in diagrams are typical values. (not assurance value)

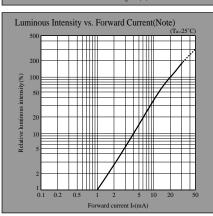
HS series

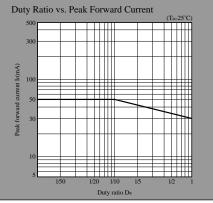




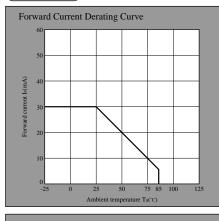


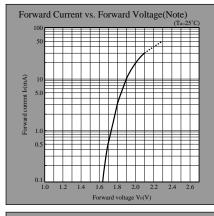


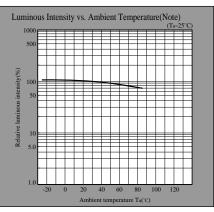


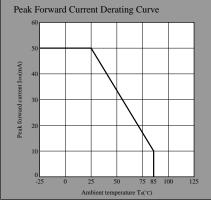


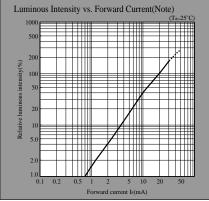
HY series

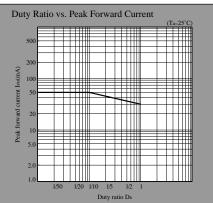






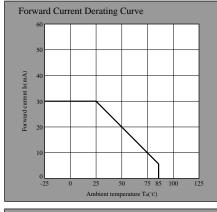


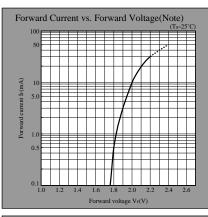


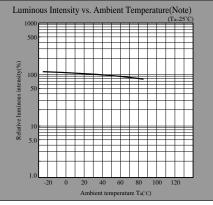


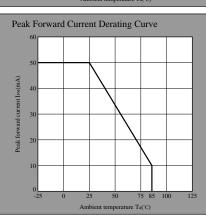
Note) Characteristics shown in diagrams are typical values. (not assurance value)

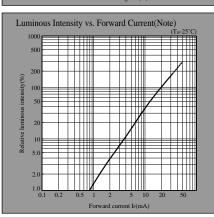
EG series

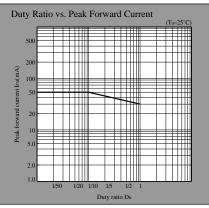




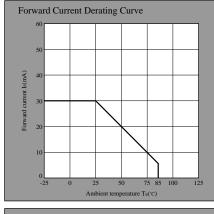


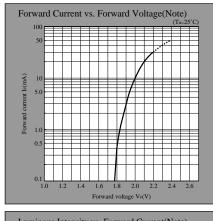


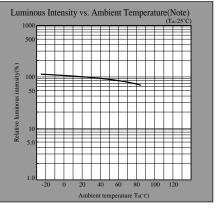


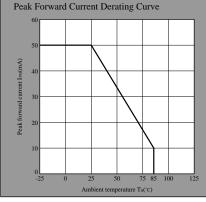


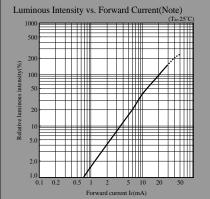
KG series

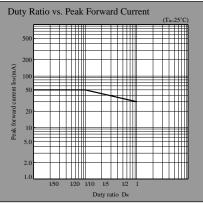






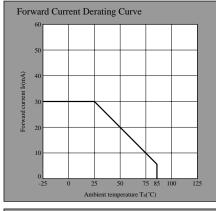


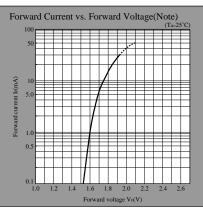


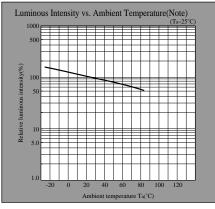


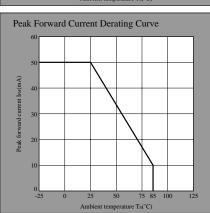
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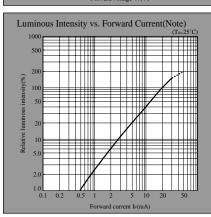
UR series

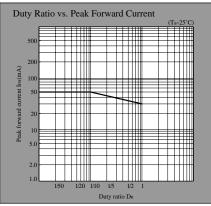




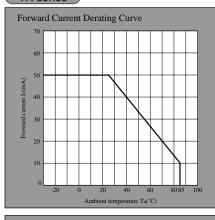


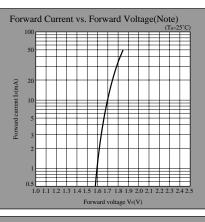


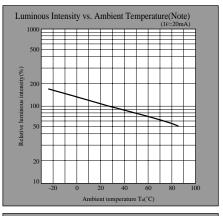


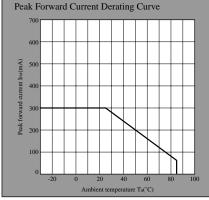


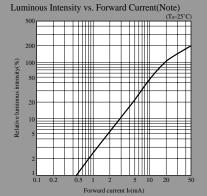
TR series

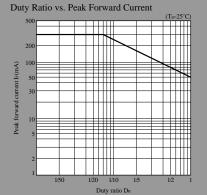












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