

SLA-560 / SLA-570 / SLA-580 Series

LED lamps

High bright circular LED lamps (ϕ 5.0mm)

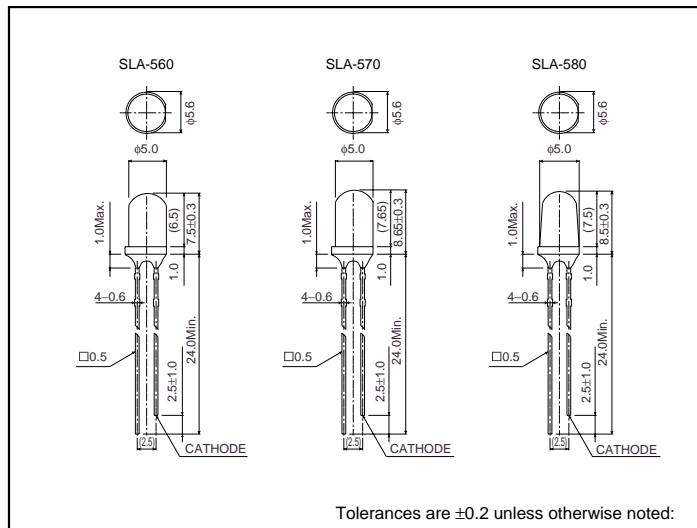
SLA-560 / SLA-570 / SLA-580 Series

The SLA-560, SLA-570 and SLA-580 series are high luminance LEDs which give you a choice of narrow to wide viewing angles. One red type and one green type are available in three packages for a total of six different types, and they are suitable for use in a wide variety of applications.

●Features

- 1) Very bright.
- 2) High reliability.

●External dimensions (Units : mm)



●Selection guide

Lens	Emitting color Single-hetero GaAlAs (red)	GaP (green)
Narrow type	SLA-580LT3F	SLA-580MT3F
Medium type	SLA-570LT3F	SLA-570MT3F
Wide viewng type	SLA-560LT3F	SLA-560MT3F

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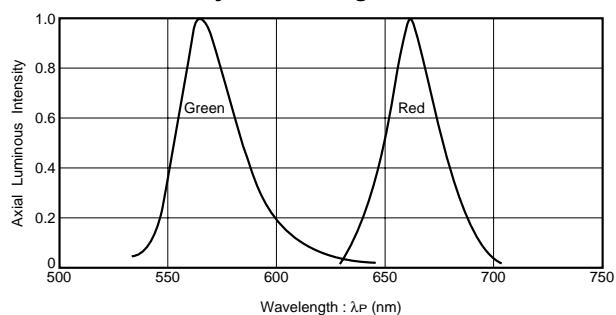
● Absolute maximum ratings ($T_a = 25^\circ C$)

Parameter	Symbol	Red	Green	Unit
		SLA-560LT3F SLA-570LT3F SLA-580LT3F	SLA-560MT3F SLA-570MT3F SLA-580MT3F	
Power dissipation	P_D	100	75	mW
Forward current	I_F	50	25	mA
Peak forward current	I_{FP}	75	60	mA
Reverse voltage	V_R	4	4	V
Operating temperature	T_{opr}	$-25\sim+85$		°C
Storage temperature	T_{stg}	$-30\sim+100$		°C
Soldering temperature	—	260°C 5 seconds maximum		—

● Electrical and optical characteristics ($T_a = 25^\circ C$)

Parameter	Symbol	Conditions	Red			Green			Unit
			Min.	Typ.	Max.	Min.	Typ.	Max.	
Forward voltage	V_F	$I_F=20mA$	—	1.75	2.5	—	2.2	3.0	V
Reverse current	I_R	$V_R=4V$	—	—	100	—	—	10	μA
Peak wavelength	λ_P	$I_F=20mA$	—	660	—	—	563	—	nm
Spectral line half width	$\Delta\lambda$	$I_F=20mA$	—	25	—	—	40	—	nm
Viewing angle	SLA-560	$20^{\circ}/2$	—	40 25 10	— — —	40 25 10	— — —	deg	deg
	SLA-570								
	SLA-580								

● Luminous intensity vs. wavelength



● Luminous intensity

Color	λ_P	Type	Min.	Typ.	Max.	Unit
Red	660	SLA-560LT3F	42	100	—	mcd
		SLA-570LT3F	90	220	—	
		SLA-580LT3F	200	470	—	
Green	563	SLA-560MT3F	42	100	—	mcd
		SLA-570MT3F	42	185	—	
		SLA-580MT3F	200	470	—	

Note : 1. Measured at $I_F=20mA$

2. The specification is subject to be without notice.

We would like you to refer to the latest specification in use.

Fig.1

LED lamps

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●Directional pattern

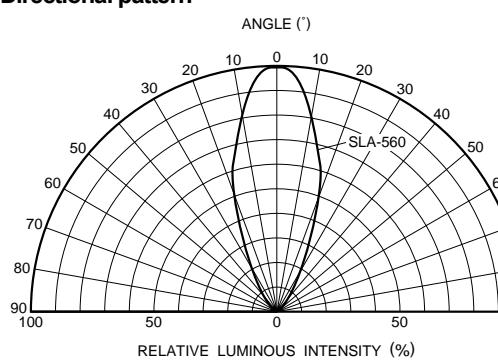


Fig.2 SLA-560 Directional pattern

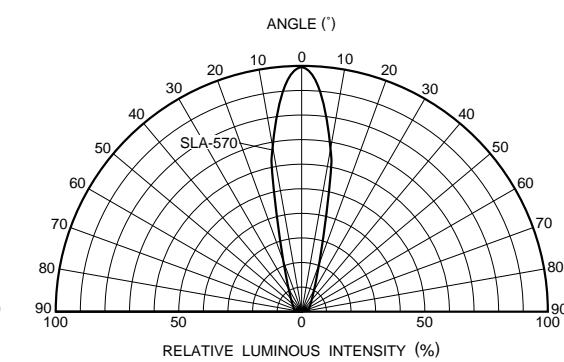


Fig.3 SLA-570 Directional pattern

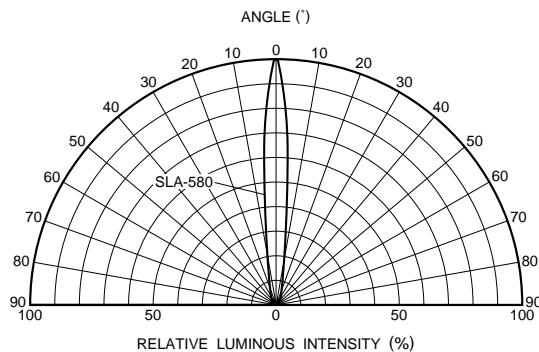


Fig.4 SLA-580 Directional pattern

●Electrical characteristic curves 1 (red)

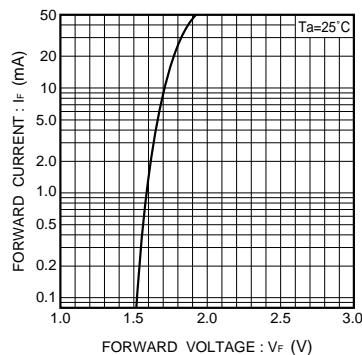


Fig.5 Forward current vs.
forward voltage

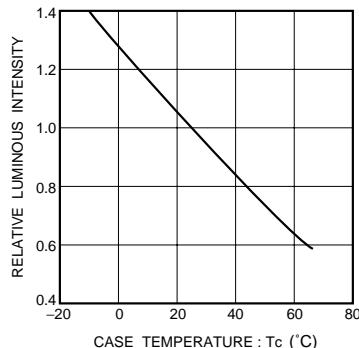


Fig.6 Luminous intensity vs.
case temperature

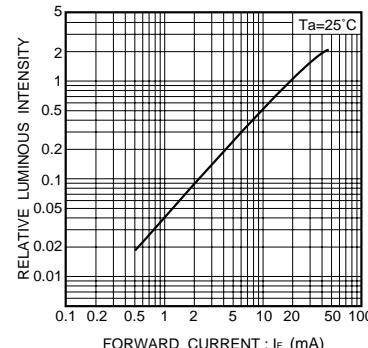


Fig.7 Luminous intensity vs.
forward current

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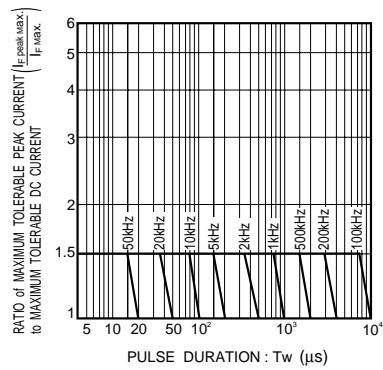


Fig.8 Maximum tolerable peak current vs. pulse duration

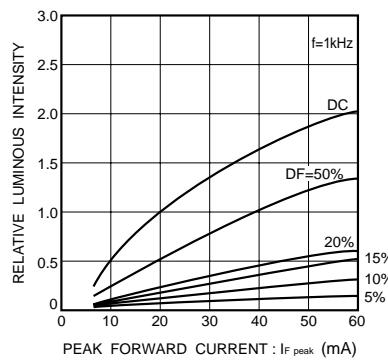


Fig.9 Luminous intensity vs. peak forward current

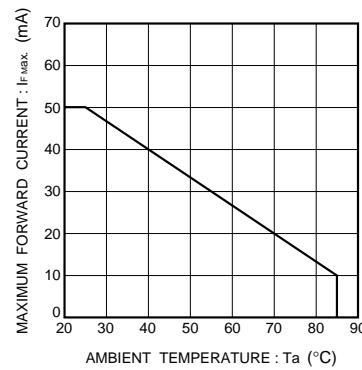


Fig.10 Maximum forward current vs. ambient temperature (Derating)

●Electrical characteristic curves 2 (green)

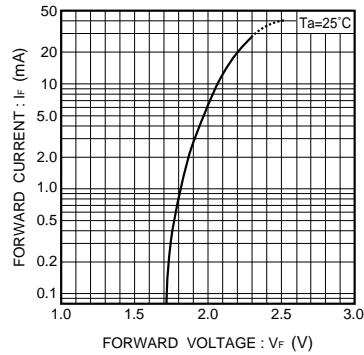


Fig.11 Forward current vs. forward voltage

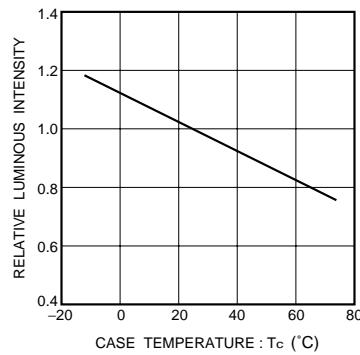


Fig.12 Luminous intensity vs. case temperature

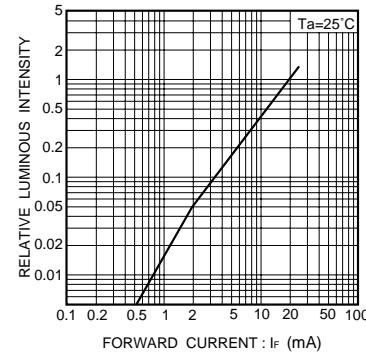


Fig.13 Luminous intensity vs. forward current

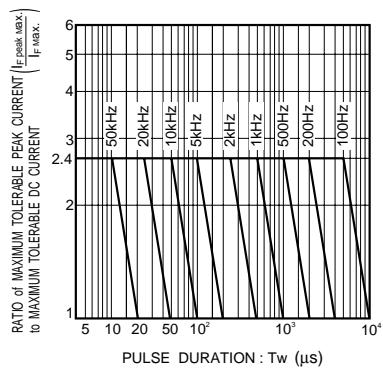


Fig.14 Maximum tolerable peak current vs. pulse duration

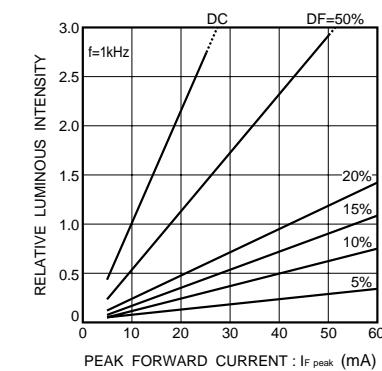


Fig.15 Luminous intensity vs. peak forward current

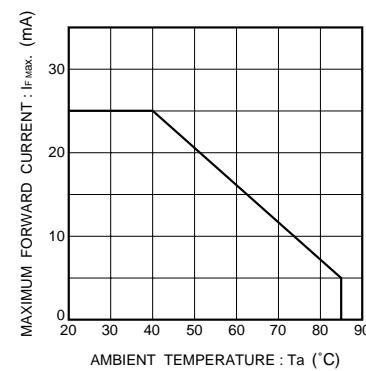


Fig.16 Maximum forward current vs. ambient temperature (Derating)