High bright circular LED lamps (φ5.0mm)

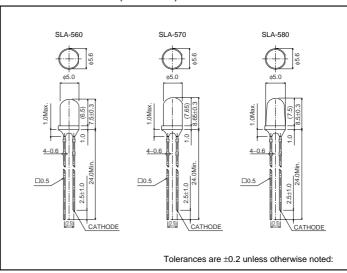
SLA-560 / SLA-570 / SLA-580 Series

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 suitable for use in a wide variety of applications.

Features

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

●External dimensions (Units : mm)



Selection guide

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

● Absolute maximum ratings (Ta = 25°C)

		Red	Green		
Parameter	Symbol	SLA-560LT3F SLA-570LT3F SLA-580LT3F	SLA-560MT3F SLA-570MT3F SLA-580MT3F	Unit	
Power dissipation	PD	100	75	mW	
Forward current	lF	50	25	mA	
Peak forward current	IFP	75	60	mA	
Reverse voltage	VR	4	4	V	
Operating temperature	Topr	-25-	°C		
Storage temperature	Tstg	-30~	°C		
Soldering temperature	_	260°C 5 seco	_		

●Electrical and optical characteristics (Ta = 25°C)

Parameter		Symbol	Conditions	Red		Green			l lmit	
				Min.	Тур.	Max.	Min.	Тур.	Max.	Unit
Forward voltage		VF	I=20mA	_	1.75	2.5	_	2.2	3.0	V
Reverse current		lR	V _R =4V	_	_	100	_	_	10	μΑ
Peak wavelength		λР	I=20mA	_	660	_	_	563	_	nm
Spectral line half width		Δλ	I=20mA	_	25	_	-	40	_	nm
Viewing angle	SLA-560	2θ 1/2	_	١	40			40		deg
	SLA-570				25	_		25		
	SLA-580				10			10		

•Luminous intensity vs. wavelength

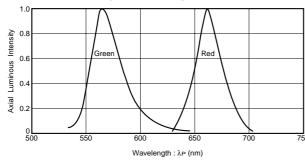


Fig.1

Luminous intensity

Color	λP	Туре	Min.	Тур.	Max.	Unit
Red	660	SLA-560LT3F	42	100	_	
		SLA-570LT3F	90	220	_	
		SLA-580LT3F	200	470	_	mcd
Green	563	SLA-560MT3F	42	100	_	IIICu
		SLA-570MT3F	42	185	_	
		SLA-580MT3F	200	470	_	

Note: 1. Measured at IF=20mA
2. The specification is subject to be without notice.
We would like you to refer to the latest specification in use.

Directional pattern

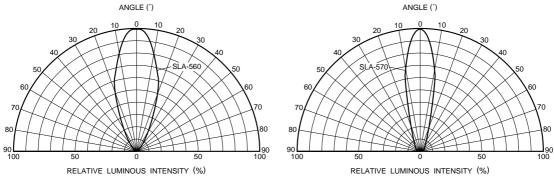


Fig.2 SLA-560 Directional patterm

Fig.3 SLA-570 Directional patterm

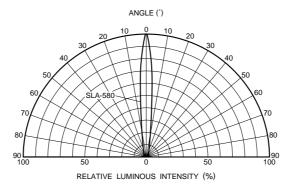


Fig.4 SLA-580 Directional patterm

●Electrical characteristic curves 1 (red)

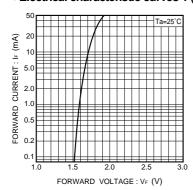


Fig.5 Forward current vs. forward voltage

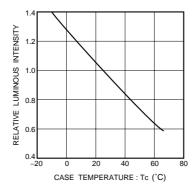


Fig.6 Luminous intensity vs. case temperature

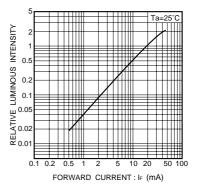


Fig.7 Luminous intensity vs. forward current

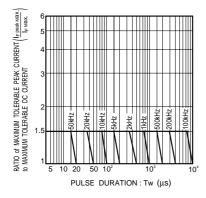


Fig.8 Maximum tolerable peak current vs. pulse duration

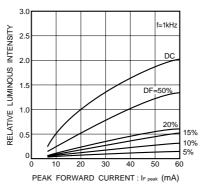


Fig.9 Luminous intensity vs. peak forward current

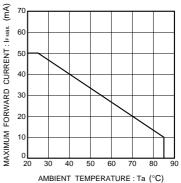


Fig.10 Maximum forward current vs. ambient temperature (Derating)

●Electrical characteristic curves 2 (green)

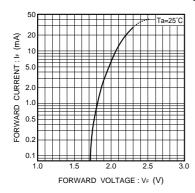


Fig.11 Forward current vs. forward voltage

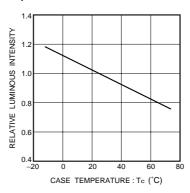


Fig.12 Luminous intensity vs. case temperature

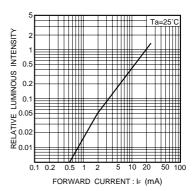


Fig.13 Luminous intensity vs. forward current

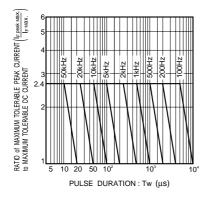


Fig.14 Maximum tolerable peak current vs. pulse duration

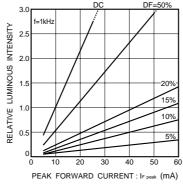


Fig.15 Luminous intensity vs. peak forward current

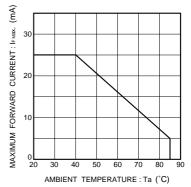


Fig.16 Maximum forward current vs. ambient temperature (Derating)

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