Reflecting LEDs (ϕ 5 mm \times 2.4 mm) SLR-520 Series

The SLR-520 series are ϕ 5 mm \times 2.4 mm LEDs with a high luminous efficiency. Two colors and two lens types are available for a total of four types, and they are suitable for use in a wide variety of applications.

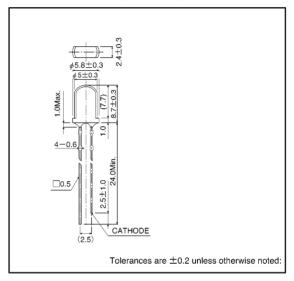
Features

- 1) High luminosity.
- 2) Two colors: red and green.
- Two lens types: Colored diffused and Colored transparent.
- 4) Slim package with a lens structure 5 mm in diameter.

Selection guide

Emitting color Lens	Red	Green	
Colored diffused	SLR-520VR	SLR-520MG	
Colored clear	SLR-520VC	SLR-520MC	

External dimensions (Units: mm)



● Absolute maximum ratings (Ta = 25°C)

			_		
	Symbol	Red	Green		
Parameter			SLR-520VR SLR-520MG SLR-520VC SLR-520MC		
Power dissipa- tion	Po	60	75	mW	
Forward current	lF	20	25	mA	
Peak forward current	IFP	60*	60*	mA	
Reverse voltage	VR	3	3	٧	
Operating temperature	Topr	− 25^	~+85	c	
Storage temperature	Tstg	-30~	~+100	°C	
Soldering temperature	_		260℃ 5 seconds maximum		

^{*} Pulse width 1ms Duty 1 / 5

LED lamps SLR-520 Series

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

Parameter	Symbol	Conditions	Red		Green			Unit	
Falametei			Min.	Тур.	Max.	Min.	Тур.	Max.	Ullit
Forward voltage	VF	I=10mA	_	2.0	3.0	_	2.1	3.0	V
Reverse current	lR	V _R =3V	_	_	10	_	_	10	μΑ
Peak wavelength	λР	I=10mA	_	650	_	_	563	_	nm
Spectral line half width	Δλ	I=10mA	_	40	_	_	40	_	nm
Viewing angle	2 # 1/2	Diffused	ı	40	_	-	40	_	deg
Viewing angle	20 1/2	Transparent	ı	40	_	ı	40	<u> </u>	ueg

•Luminous intensity vs. wavelength

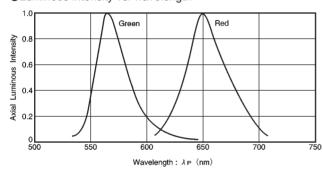


Fig. 1

Luminous intensity

	Color	λР	Туре	Min.	Тур.	Max.	Unit
Red	Pod	650	SLR-520VR	3.6	10	_	mcd
	neu		SLR-520VC	5.6	16	_	mcd
	Groon	n 563	SLR-520MG	3.6	10	_	mcd
	Green		SLR-520MC	5.6	16	_	mcd

Note: Measured at I_F = 10 mA

Directional pattern

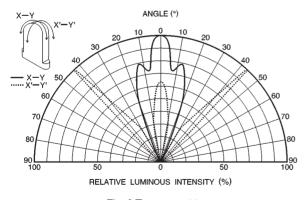


Fig. 2 Transparent type

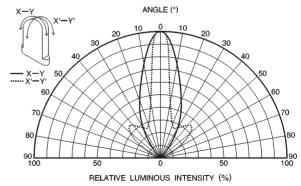


Fig. 3 Diffused type

LED lamps SLR-520 Series

Electrical characteristic curves 1 (red)

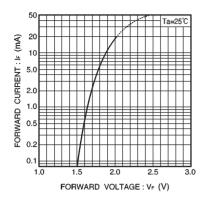


Fig. 4 Forward current vs. forward voltage

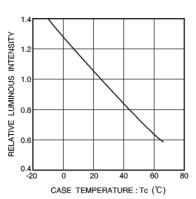


Fig. 5 Luminous intensity vs. case temperature

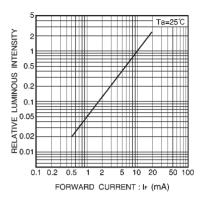


Fig. 6 Luminous intensity vs. forward current

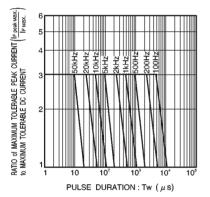


Fig. 7 Maximum tolerable peak current vs. pulse duration

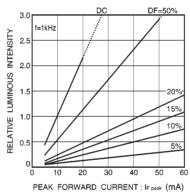


Fig. 8 Luminous intensity vs. peak forward current

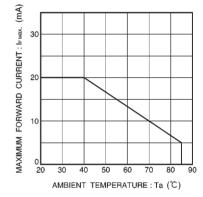


Fig. 9 Maximum forward current vs. ambient temperature

LED lamps SLR-520 Series

• Electrical characteristic curves 2 (green)

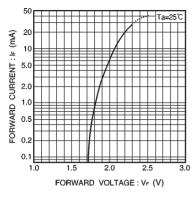


Fig. 10 Forward current vs. forward voltage

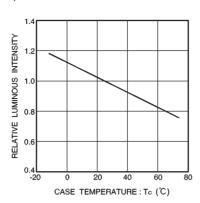


Fig. 11 Luminous intensity vs. case temperature

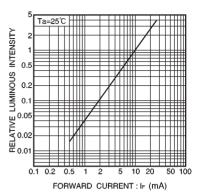


Fig. 12 Luminous intensity vs. forward current

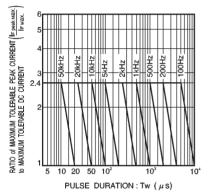


Fig. 13 Maximum tolerable peak current vs. pulse duration

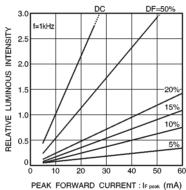


Fig. 14 Luminous intensity vs. peak forward current

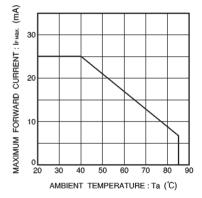


Fig. 15 Maximum forward current vs. ambient temperature