Reflecting low-dome LEDs, directly mountable (\$\phi 5.0 mm)

SLR-505 Series

The SLR-505 series are small 5 mm LEDs with a lead pitch of 5 mm which can be directly mounted on a printed circuit board. 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

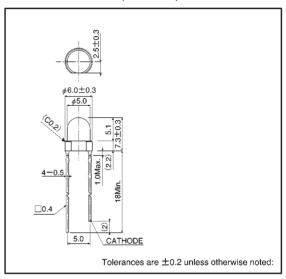
- 1) Can be directly mounted on a printed circuit board.
- 2) Available on tape to allow mounting using a 5 mm pitch machine without lead forming.
- Large flange eliminates wobbling after mounting (stable before and after soldering).
- The auto insertability and stability of this LED dramatically decreases quality problems during production.

Selection guide

Emitting color Lens	Red	Green
Colored diffused	SLR-505VR	SLR-505MG
Colored clear	SLR-505VC	SLR-505MC

Note: This product is only available on tape.

External dimensions (Units: mm)



■Absolute maximum ratings (Ta = 25°C)

		Red	Green	Unit	
Parameter	Symbol	3E11-303 VII	SLR-505MG SLR-505MC		
Power dissipa- tion	P□	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^	°C		
Storage temperature	Tstg	− 30^	°C		
Soldering temperature	_	260°C 5 maxi	_		

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

LED lamps SLR-505 Series

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

Parameter	Symbol	Conditions	Red			Green			Unit
r al allielei			Min.	Тур.	Max.	Min.	Тур.	Max.	Offic
Forward voltage	VF	I=10mA	_	2.0	3.0	_	2.1	3.0	V
Reverse current	lR	V _R =3V	ı	_	10	ı	_	10	μΑ
Peak wavelength	λР	I=10mA	_	650	_	_	563	_	nm
Spectral line half width	Δλ	I=10mA	_	40	_	_	40	_	nm
Viewing angle	2 0 1/2	Diffused	-	55	-	-	55	_	deg
		Transparent	ı	35	_	ı	35	<u> </u>	

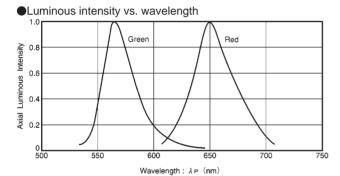


Fig. 1

Luminous intensity

Color	λp	Туре	Min.	Тур.	Мах.	Unit
Red 65	650	SLR-505VR	2.2	6.3	_	mcd
	650	SLR-505VC	5.6	16.0	_	mcd
Green	563	SLR-505MG	5.6	16.0	_	mcd
		SLR-505MC	9.0	25.0	_	mcd

Note: Measured at IF = 10 mA

Directional pattern

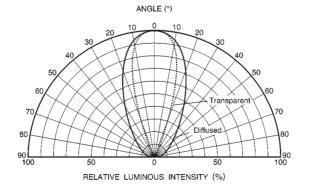


Fig. 2

LED lamps SLR-505 Series

Electrical characteristic curves 1 (red)

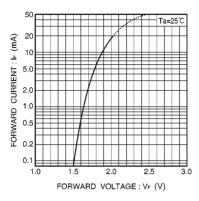


Fig. 3 Forward current vs. forward voltage

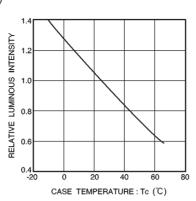


Fig. 4 Luminous intensity vs. case temperature

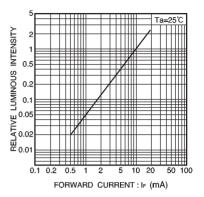


Fig. 5 Luminous intensity vs. forward current

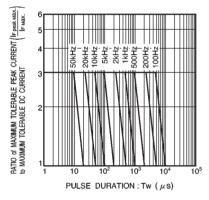


Fig. 6 Maximum tolerable peak current vs. pulse duration

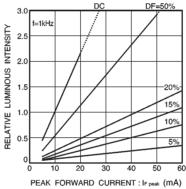


Fig. 7 Luminous intensity vs. peak forward current

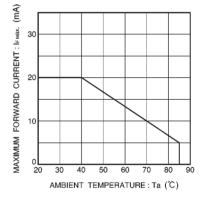


Fig. 8 Maximum forward current vs. ambient temperature

LED lamps SLR-505 Series

●Electrical characteristic curves 2 (green)

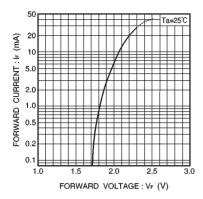


Fig. 9 Forward current vs. forward voltage

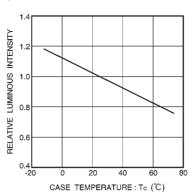


Fig. 10 Luminous intensity vs. case temperature

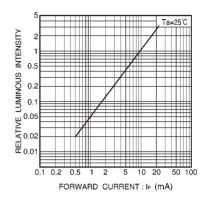


Fig. 11 Luminous intensity vs. forward current

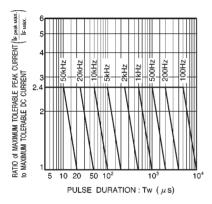


Fig. 12 Maximum tolerable peak current vs. pulse duration

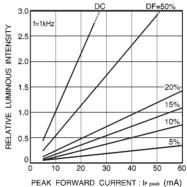


Fig. 13 Luminous intensity vs. peak forward current

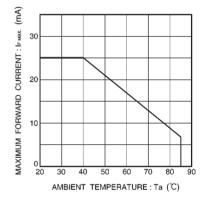


Fig. 14 Maximum forward current vs. ambient temperature