Reflecting small LEDs, directly mountable (\$\phi 3.1 mm)

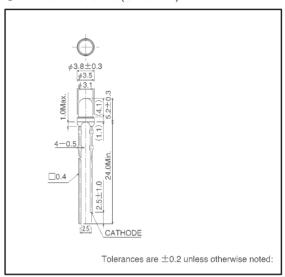
SLR-342 Series

The SLR-342 series are small 3.1 mm LEDs which can be directly mounted on a printed circuit board. Four colors and two lens types are available for a total of eight types, and they are suitable for use in a wide variety of applications.

Features

- 1) Four colors: red, orange, yellow and green.
- 2) Two lens types: Colored diffused and Colored clear.
- Compact epoxy resin package with a diameter of 3.1 mm.
- 4) High reliability.

External dimensions (Units: mm)



Selection guide

Emitting color Lens	Red	Orange	Yellow	Green		
Colored diffused	SLR-342VR	SLR-342DU	SLR-342YY	SLR-342MG		
Colored clear	SLR-342VC	SLR-342DC	SLR-342YC	SLR-342MC		

● Absolute maximum ratings (Ta = 25°C)

Parameter		Red	Orange	Yellow	Green	Unit		
	Symbol	SLR-342VR SLR-342VC	SLR-342DU SLR-342DC	SLR-342YY SLR-342YC	SLR-342MG SLR-342MC			
Power dissipation	P□	60	60	60	75	mW		
Forward current	lF	20	20	20	25	mA		
Peak forward current	IFP	60*	60*	60*	60*	mA		
Reverse voltage	VR	3	3	3	3	V		
Operating temperature	Topr	−25~+85						
Storage temperature	Tstg	−30~+100						
Soldering temperature	_		_					

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



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

Parameter Symbol	Symbol	ool Conditions	Red		Orange		Yellow		Green			Unit			
	Conditions	Min.	Тур.	Мах.	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Offic	
Forward voltage	VF	I _F =10mA	_	2.0	3.0	_	2.0	3.0	_	2.1	3.0	_	2.1	3.0	V
Reverse current	IR	V _R =3V	_	_	10	_	_	10	_	_	10	_	_	10	μΑ
Peak wavelength	λР	I=10mA	_	650	_	_	610	_	_	585	_	_	563	_	nm
Spectral line half width	Δλ	I=10mA	-	40	_	_	40	_	-	40	_	_	40	_	nm
Viewing angle 2 θ	2 θ 1/2	Diffused	I	40	_	ı	40	_	ı	40	_	_	40	-	deg
		Transparent	ı	40	_	_	40	_	_	40	_	_	40		

•Luminous intensity vs. wavelength

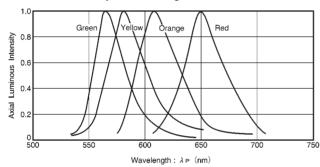


Fig. 1

Luminous intensity

Color	λp	Туре	Min.	Тур.	Мах.	Unit
Red	650	SLR-342VR	5.6	16.0	_	mcd
		SLR-342VC	9.0	25.0	_	mcd
Orange	610	SLR-342DU	5.6	16.0	_	mcd
		SLR-342DC	9.0	25.0	_	mcd
Yellow	585	SLR-342YY	3.6	10	_	mcd
		SLR-342YC	5.6	16.0	_	mcd
Green	563	SLR-342MG	5.6	16.0	_	mcd
		SLR-342MC	9.0	25.0	_	mcd

Note: Measured at IF = 10 mA

Directional pattern

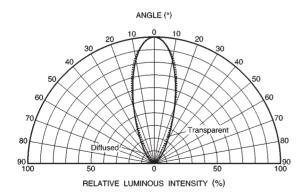


Fig. 2

Electrical characteristic curves 1 (red)

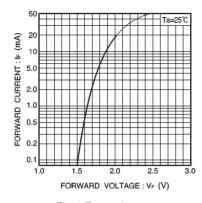


Fig. 3 Forward current vs. forward voltage

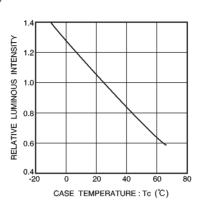


Fig. 4 Luminous intensity vs. case temperature

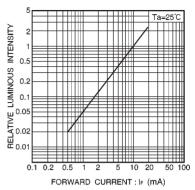


Fig. 5 Luminous intensity vs. forward current

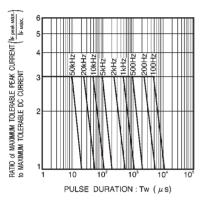


Fig. 6 Maximum tolerable peak current vs. pulse duration

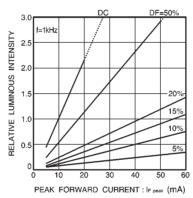


Fig. 7 Luminous intensity vs. peak forward current

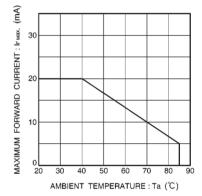


Fig. 8 Maximum forward current vs. ambient temperature

Electrical characteristic curves 2 (orange)

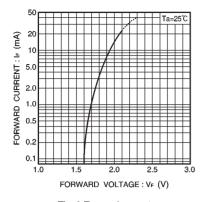


Fig. 9 Forward current vs. forward voltage

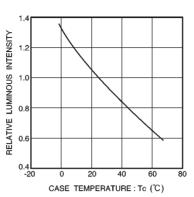


Fig. 10 Luminous intensity vs. case temperature

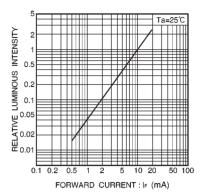


Fig. 11 Luminous intensity vs. forward current

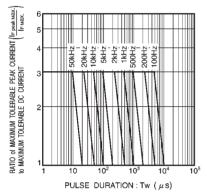


Fig. 12 Maximum tolerable peak current vs. pulse duration

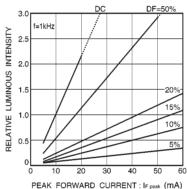


Fig. 13 Luminous intensity vs. peak forward current

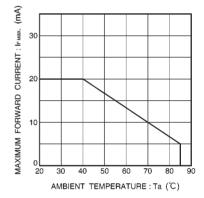


Fig. 14 Maximum forward current vs. ambient temperature

Electrical characteristic curves 3 (yellow)

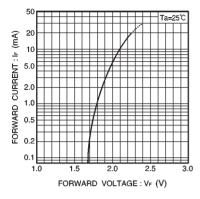


Fig. 15 Forward current vs. forward voltage

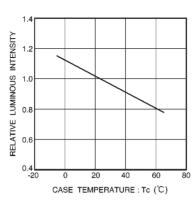


Fig. 16 Luminous intensity vs. case temperature

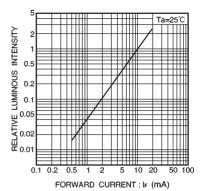


Fig. 17 Luminous intensity vs. forward current

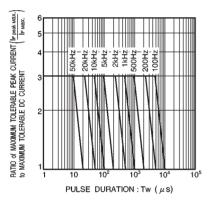


Fig. 18 Maximum tolerable peak current vs. pulse duration

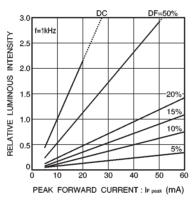


Fig. 19 Luminous intensity vs. peak forward current

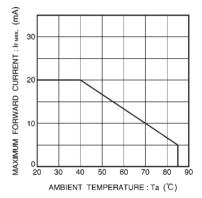


Fig. 20 Maximum forward current vs. ambient temperature

Electrical characteristic curves 4 (green)

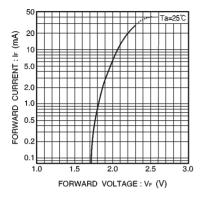


Fig. 21 Forward current vs. forward voltage

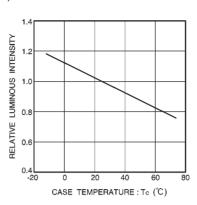


Fig. 22 Luminous intensity vs. case temperature

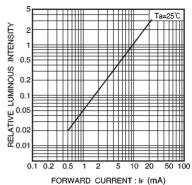


Fig. 23 Luminous intensity vs. forward current

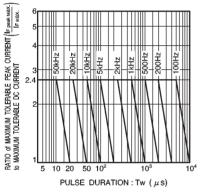


Fig. 24 Maximum tolerable peak current vs. pulse duration

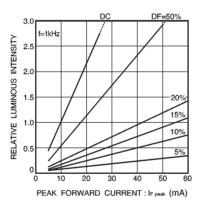


Fig. 25 Luminous intensity vs. peak forward current

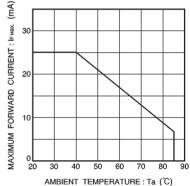


Fig. 26 Maximum forward current vs. ambient temperature

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