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.

Selection guide

Colored diffused

Colored clear

Lens

Emitting color

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

Red

SLR-520VR

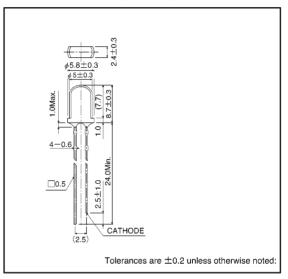
SLR-520VC

Green

SLR-520MG

SLR-520MC

External dimensions (Units: mm)



• Absolute maximum ratings (Ta = 25° C)

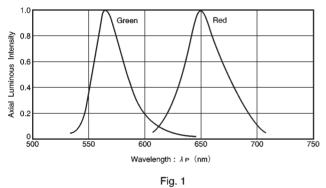
Power dissipa- tionPD6075rForward currentIF20251	Unit mW
Power dissipa- tionPD6075rForward currentIF20251	
tionPD6075rForward currentIF20251	mW
De als famisand	mA
Peak forward IFP 60* current IFP 60*	mA
Reverse voltage VR 3 3	V
Operating temperature Topr -25~+85	°C
Storage temperature Tstg -30~+100	°C
Soldering _ 260°C 5 seconds temperature maximum	_

* Pulse width 1ms Duty 1 / 5

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

Parameter	Symbol	Conditions	Red			Green			Unit
Faiameter			Min.	Тур.	Max.	Min.	Тур.	Max.	
Forward voltage	VF	I⊧=10mA	—	2.0	3.0	_	2.1	3.0	V
Reverse current	IR	V _R =3V		_	10		_	10	μA
Peak wavelength	λp	I⊧=10mA	—	650	_	_	563	—	nm
Spectral line half width	λΔ	I⊧=10mA	-	40	_	-	40	—	nm
Viewing angle	2 Ø 1/2	Diffused		40	_		40	—	deg
		Transparent	_	40	_	—	40	—	Lieg

•Luminous intensity vs. wavelength

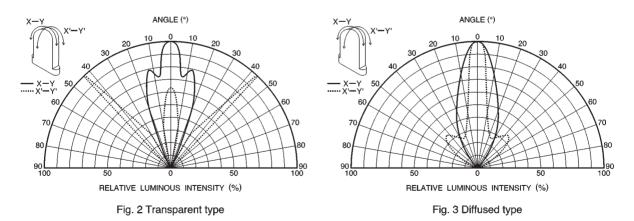


Luminous intensity

Color	λp	Туре	Min.	Тур.	Max.	Unit
Red 6	650	SLR-520VR	3.6	10	10 —	
	000	SLR-520VC	5.6	16	-	mcd
Green	563	SLR-520MG	3.6	10	_	mcd
		SLR-520MC	5.6	16	_	mcd

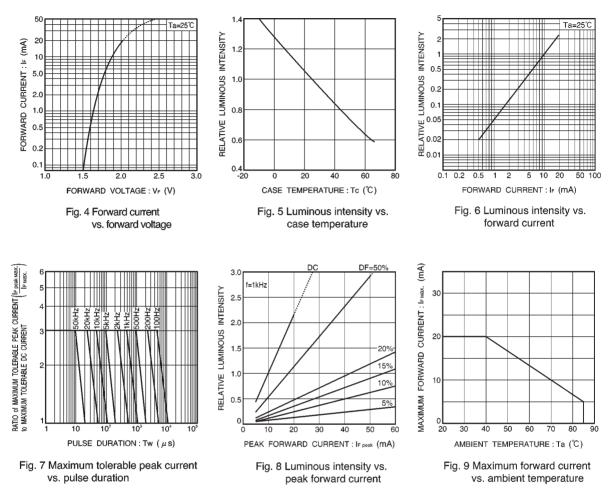
Note: Measured at IF = 10 mA

Directional pattern

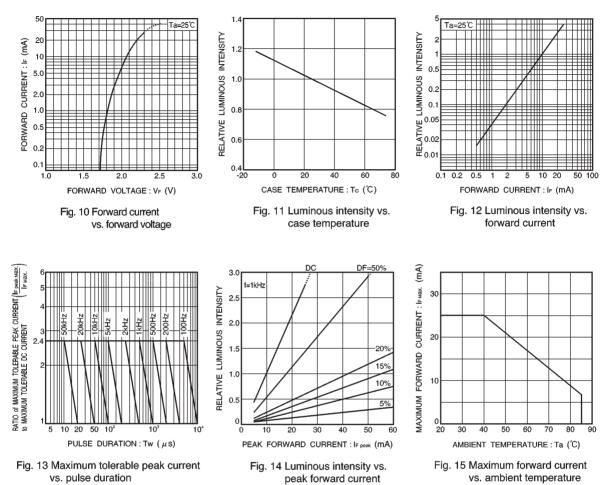


ROHM

Electrical characteristic curves 1 (red)



Electrical characteristic curves 2 (green)



ROHM