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[Rohm Semiconductor](#)  
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**LED lamps**

# Directly mountable, two-color LEDs (φ5.0 mm) SPR-325 Series

The SPR-325 series are φ3.2 mm, two-color LEDs which can be directly mounted on a printed circuit board. Red and green elements are built into a single package, and these LEDs are suitable for a wide range of uses.

●Features

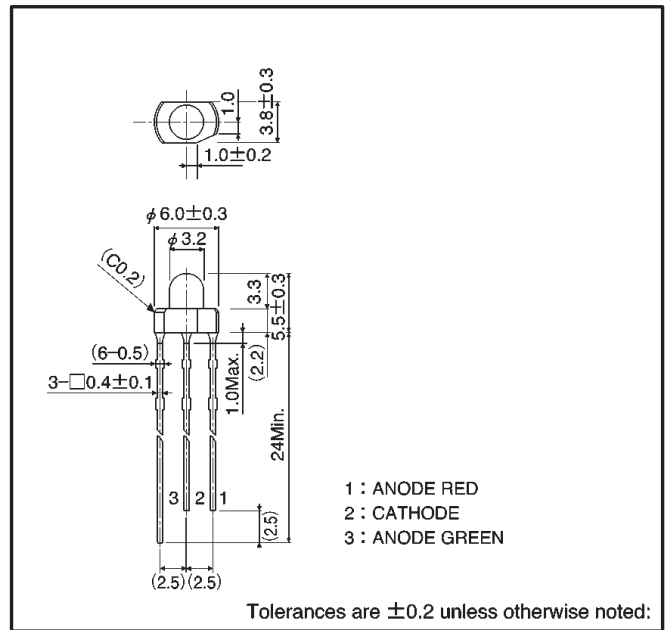
- 1) Two-color emission : red and green.
- 2) Epoxy resin package with a diameter of 3.2 mm.
- 3) Milky white lens.
- 4) High reliability.
- 5) Lead pitch of 2.5 mm.

●Selection guide

Emitting color	Red / Green
Lens	Milky white
	SPR-325MVW

Note: This product is only available on tape.

●External dimensions (Units: mm)



●Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Red	Green	Unit
Power dissipation	P <sub>D</sub>	60	75	mW
Forward current	I <sub>F</sub>	20	25	mA
Peak forward current	I <sub>FP</sub>	60*	60*	mA
Reverse voltage	V <sub>R</sub>	3	3	V
Operating temperature	T <sub>opr</sub>	-25~+85		°C
Storage temperature	T <sub>stg</sub>	-30~+100		°C
Soldering temperature	—	260°C 5 seconds maximum		—

\* Pulse width 1ms Duty 1 / 5

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

Parameter	Symbol	Conditions	Red			Green			Unit
			Min.	Typ.	Max.	Min.	Typ.	Max.	
Forward voltage	$V_F$	$I_F=10\text{mA}$	—	2.0	3.0	—	2.1	3.0	V
Reverse current	$I_R$	$V_R=3\text{V}$	—	—	10	—	—	10	$\mu\text{A}$
Peak wavelength	$\lambda_P$	$I_F=10\text{mA}$	—	650	—	—	563	—	nm
Spectral line half width	$\Delta \lambda$	$I_F=10\text{mA}$	—	40	—	—	40	—	nm
Viewing angle	$2\theta_{1/2}$	Diffused	—	40	—	—	40	—	deg
Luminous intensity	$I_v$	$I_F=10\text{mA}$	2.2	6.3	—	3.6	10	—	mcd

●Luminous intensity vs. wavelength

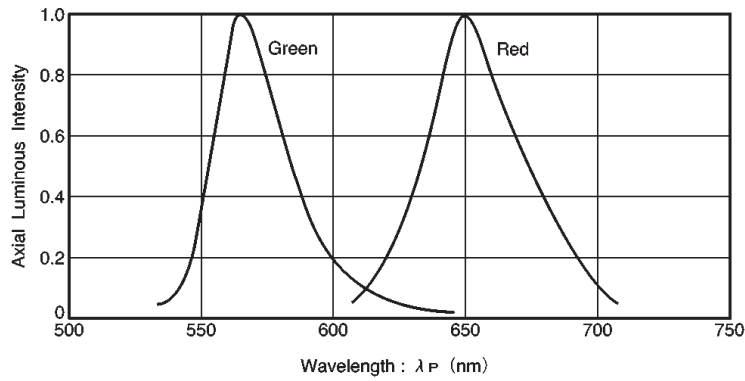


Fig. 1

●Directional pattern

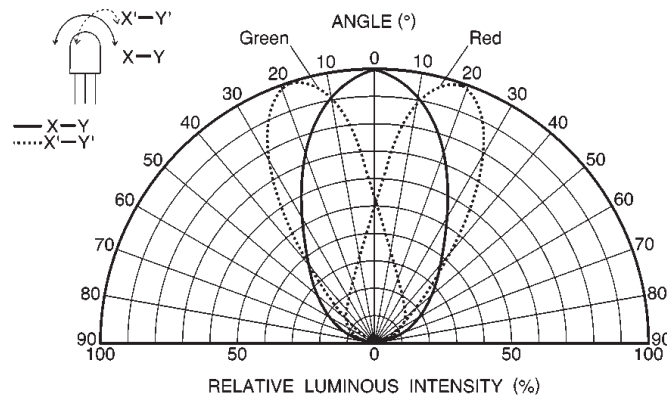


Fig. 2

● Electrical characteristic curves (red, green)

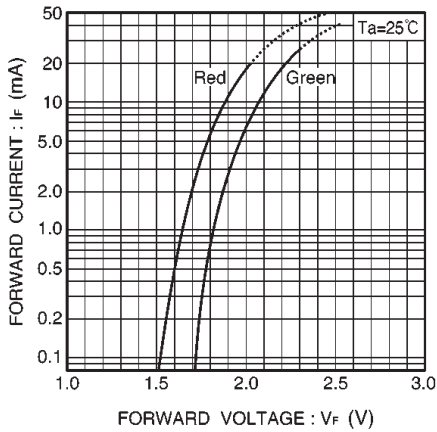


Fig. 3 Forward current vs. forward voltage

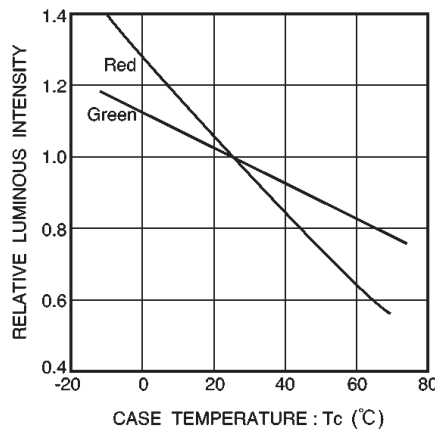


Fig. 4 Luminous intensity vs. case temperature

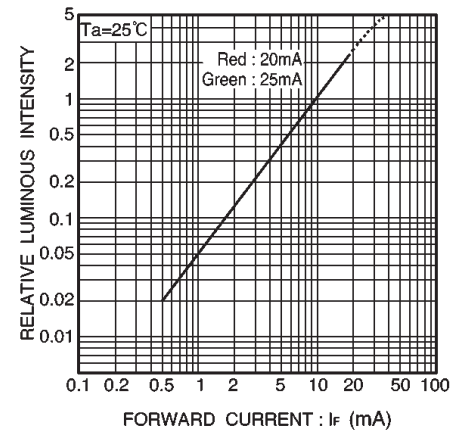


Fig. 5 Luminous intensity vs. forward current

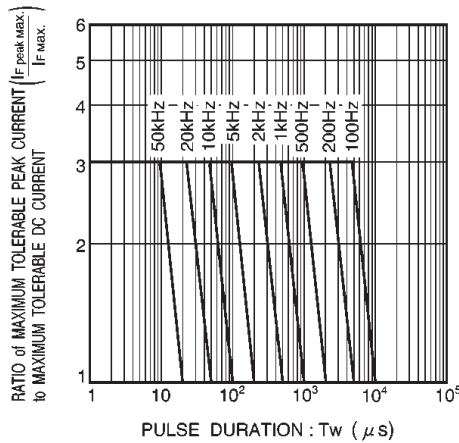


Fig. 6 Maximum tolerable peak current vs. pulse duration (red)

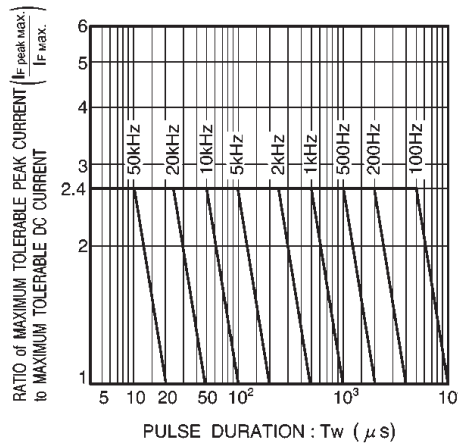


Fig. 7 Maximum tolerable peak current vs. pulse duration (green)

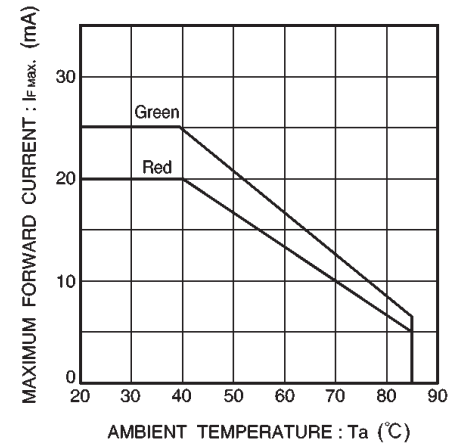


Fig. 8 Maximum forward current vs. ambient temperature