Directly mountable, two-color LEDs (\$\phi 5.0 mm)

SPR-325 Series

The SPR-325 series are $\phi 3.2$ 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

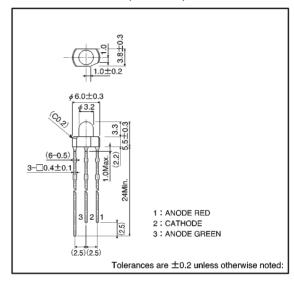
- 1) Two-color emission: red and green.
- 2) Epoxy resin package with a diameter of 3.2 mm.
- 3) Milky white lens.
- 4) High reliability.
- 5) Lead pitch of 2.5 mm.

Selection guide

Emitting color Lens	Red / Green
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	Pp	60	75	mW	
Forward current	lF	20	25	mA	
Peak forward current	lFP	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 SPR-325 Seires

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

Parameter	Symbol	Conditions	Red			Green			Unit
			Min.	Тур.	Max.	Min.	Тур.	Max.	Gill
Forward voltage	VF	I=10mA	_	2.0	3.0	_	2.1	3.0	V
Reverse current	IR	V _R =3V	_	_	10	_	_	10	μΑ
Peak wavelength	λP	I=10mA	_	650	_	_	563	_	nm
Spectral line half width	Δλ	I=10mA	_	40	_	_	40	_	nm
Viewing angle	2θ 1/2	Diffused	_	40	_	_	40	_	deg
Luminous intensity	lv	I=10mA	2.2	6.3	_	3.6	10	_	mcd

•Luminous intensity vs. wavelength

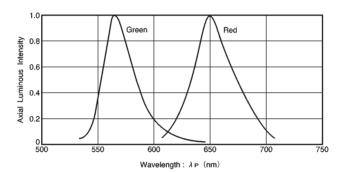


Fig. 1

Directional pattern

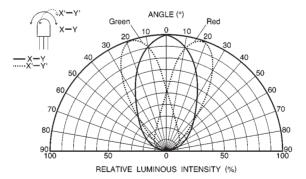


Fig. 2

LED lamps SPR-325 Seires

Electrical characteristic curves (red, green)

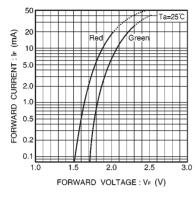


Fig. 3 Forward current vs. forward voltage

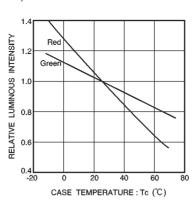


Fig. 4 Luminous intensity vs. case temperature

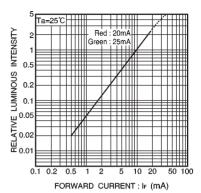


Fig. 5 Luminous intensity vs. forward current

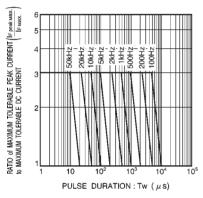


Fig. 6 Maximum tolerable peak current vs. pulse duration (red)

142

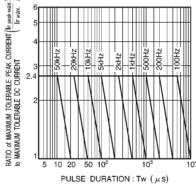


Fig. 7 Maximum tolerable peak current vs. pulse duration (green)

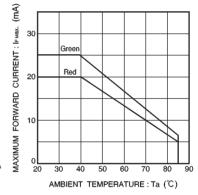


Fig. 8 Maximum forward current vs. ambient temperature