Reflecting small LEDs, directly mountable (\$\phi 3.2 mm)

SLR-325 Series

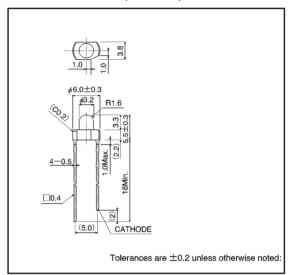
The SLR-325 series are small 3.2 mm LEDs with a lead pitch of 5 mm which can be directly mounted on a printed circuit board. Two colors and four lens types are available for a total of eight types, and they are suitable for use in a wide variety of applications.

Features

- 1) Can be directly mounted on a printed circuit board.
- Available on tape to allow mounting using a 5 mm pitch machine without lead forming.
- A low overall height of 5.5 mm makes it possible to design a slim unit.
- 4) Large flange eliminates wobbling after mounting (stable before and after soldering).
- LED arrays at a conventional 4 mm pitch are also possible.
- 6) High reliability.

•Selection guide

External dimensions (Units: mm)



Emitting color Lens	Red	Orange	Yellow	Green	
Colored diffused	SLR-325VR	SLR-325DU	SLR-325YY	SLR-325MG	
Colored clear	SLR-325VC	SLR-325DC	SLR-325YC	SLR-325MC	

Note: This product is only available on tape.

•Absolute maximum ratings (Ta = 25° C)

Parameter	Symbol	Red	Orange	Yellow	Green			
		SLR-325VR SLR-325VC	SLR-325DU SLR-325DC	SLR-325YY SLR-325YC	SLR-325MG SLR-325MC	Unit		
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	٧		
Operating temperature	Topr	−25~ +85						
Storage temperature	Tstg	-30 ∼+100						
Soldering temperature	_	260°C 5seconds maximum						

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



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

Parameter Symbol	Symbol	Conditions	Red		Orange		Yellow		Green			Unit			
	Conditions	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Onit	
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	λp	I _F =10mA	-	650	_	_	610	_	_	585	_	_	563	_	nm
Spectral line half width	Δλ	I=10mA	ı	40	_	_	40	_	_	40	_	ı	40	_	nm
Viewing angle 2 θ 1	24	Diffused	_	40	_	_	40	_	_	40	_	_	40	_	deg
	∠ 0 1/2	Transparent	_	40	_	_	40	_	_	40	_	_	40	_	ucg

•Luminous intensity vs. wavelength

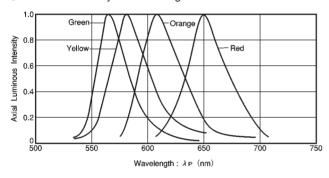


Fig.1

Luminous intensity

Color	λР	Туре	Min.	Тур.	Мах.	Unit	
Red	650	SLR-325VR	3.6	10	_	mcd	
		SLR-325VC	5.6	16.0	_	mcd	
Orange	610	SLR-325DU	3.6	10	_	mcd	
		SLR-325DC	5.6	16.0	_	mcd	
Yellow	585	SLR-325YY	2.2	6.3	_	mcd	
		SLR-325YC	5.6	16.0	_	mcd	
Green	563	SLR-325MG	5.6	16.0	_	mcd	
		SLR-325MC	9.0	25.0	_	mcd	
		SLR-325MC	9.0	25.0	_	mcd	

Note: Measured at I_F = 10 mA

Directional pattern

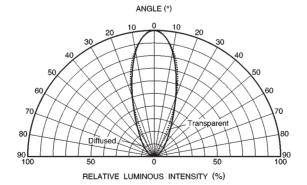


Fig. 2

●Electrical characteristic curves 1 (red)

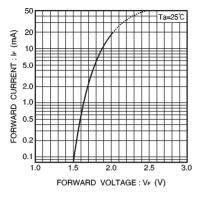


Fig. 3 Forward current vs. forward voltage

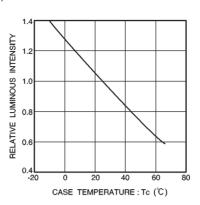


Fig. 4 Luminous intensity vs. case temperature

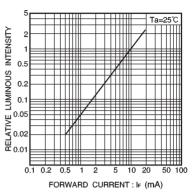


Fig. 5 Luminous intensity vs. forward current

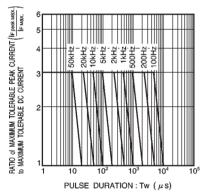


Fig. 6 Maximum tolerable peak current vs. pulse duration

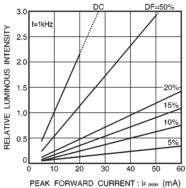


Fig. 7 Luminous intensity vs. peak forward current

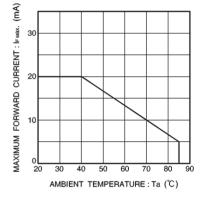


Fig. 8 Maximum forward current vs. ambient temperature

Electrical characteristic curves 2 (orange)

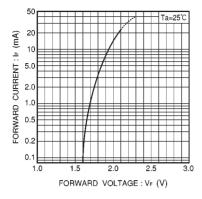


Fig.9 Forward current vs. forward voltage

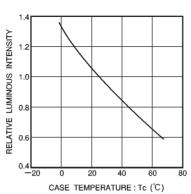


Fig.10 Luminous intensity vs. case temperature

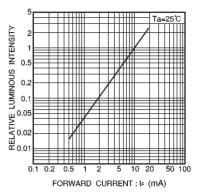


Fig.11 Luminous intensity vs. forward current

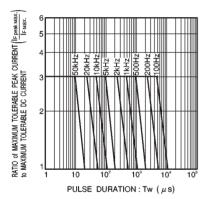


Fig.12 Maximum tolerable peak current vs. pulse duration

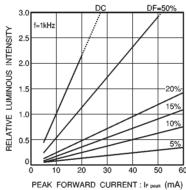


Fig.13 Luminous intensity vs. peak forward current

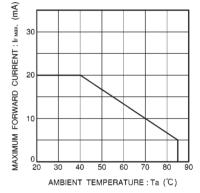


Fig.14 Maximum forward current vs. ambient temperature

Electrical characteristics 3 (yellow)

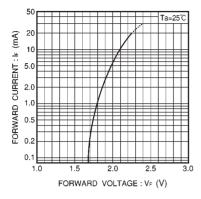


Fig.15 Forward current vs. forward voltage

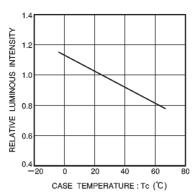


Fig.16 Luminous intensity vs. case temperature

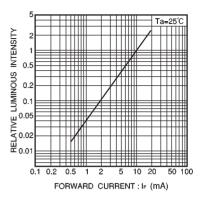


Fig.17 Luminous intensity vs. forward current

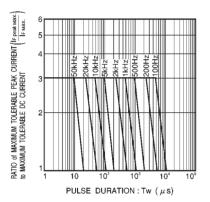


Fig.18 Maximum tolerable peak current vs. pulse duration

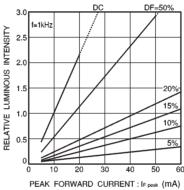


Fig.19 Luminous intensity vs. peak forward current

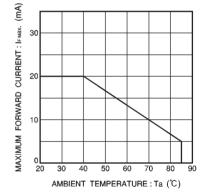


Fig.20 Maximum forward current vs. ambient temperature

Electrical characteristic curves 4 (green)

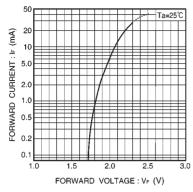


Fig. 21 Forward current vs. forward voltage

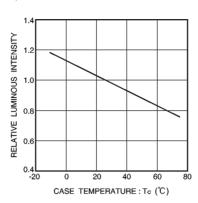


Fig. 22 Luminous intensity vs. case temperature

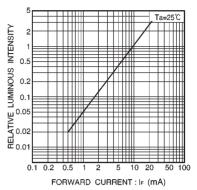


Fig. 23 Luminous intensity vs. forward current

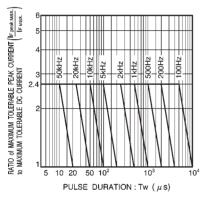


Fig. 24 Maximum tolerable peak current vs. pulse duration

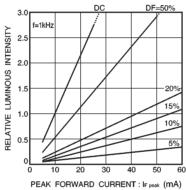


Fig. 25 Luminous intensity vs. peak forward current

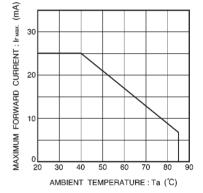


Fig. 26 Maximum forward current vs. ambient temperature