Reflecting small LEDs, directly mountable (ϕ 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.
- 2) 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).
- 5) LED arrays at a conventional 4 mm pitch are also possible.
- 6) High reliability.

Selection guide

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	

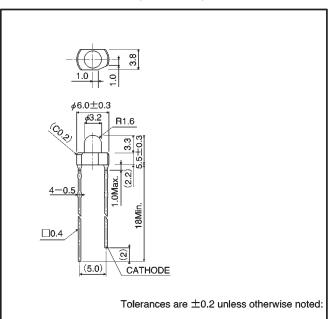
Note: This product is only available on tape.

Absolute maximum ratings (Ta = 25°C)

Parameter		Red	Orange	Yellow	Green			
	Symbol	SLR-325VR SLR-325VC	SLR-325DU SLR-325DC	SLR-325YY SLR-325YC	SLR-325MG SLR-325MC	Unit		
Power dissipation	PD	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	-	260°C 5seconds maximum						

Pulse width 1ms Duty 1 / 5

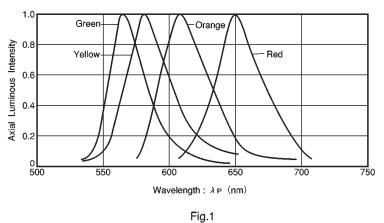
External dimensions (Units: mm)



Parameter Symbol	Symbol	Conditions	Red		Orange		Yellow			Green			Unit		
	Conditions	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Unit	
Forward voltage	VF	I⊧=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	μA
Peak wavelength	λp	I⊧=10mA	_	650	-		610	_	-	585	_	_	563		nm
Spectral line half width	Δλ	l⊧=10mA	_	40	_	_	40	_	_	40	_	_	40	_	nm
Viewing angle $2\theta_1$	04	Diffused	_	40	_		40	_	l	40	_		40	_	deg
	201/2	Transparent	_	40	_	_	40	_	_	40	_	_	40	_	ueg

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

•Luminous intensity vs. wavelength



Luminous intensity

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

Note: Measured at IF = 10 mA

Directional pattern

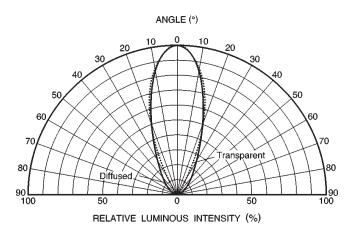


Fig. 2

Electrical characteristic curves 1 (red)

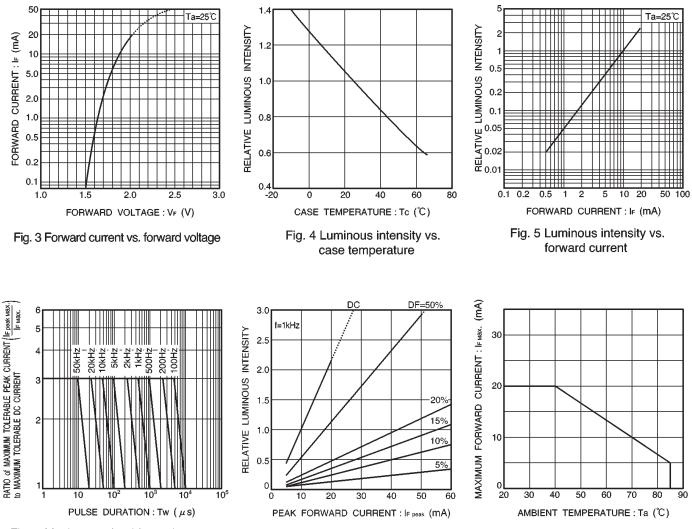
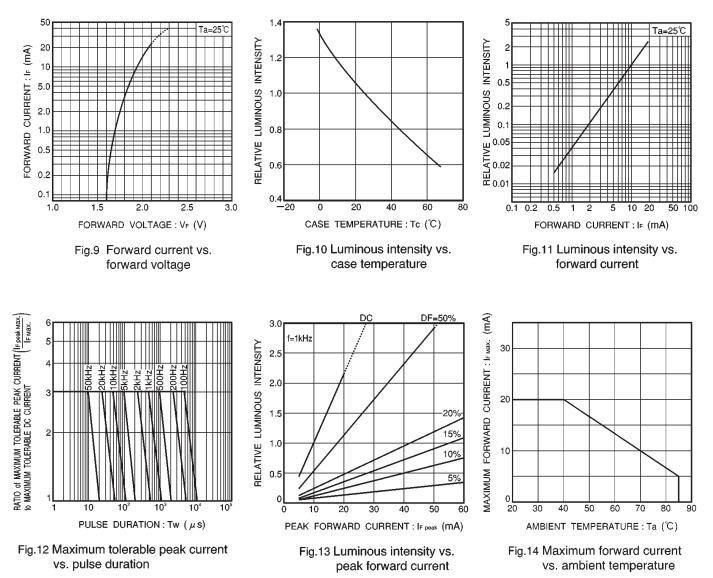


Fig. 6 Maximum tolerable peak current vs. pulse duration

Fig. 7 Luminous intensity vs. peak forward current

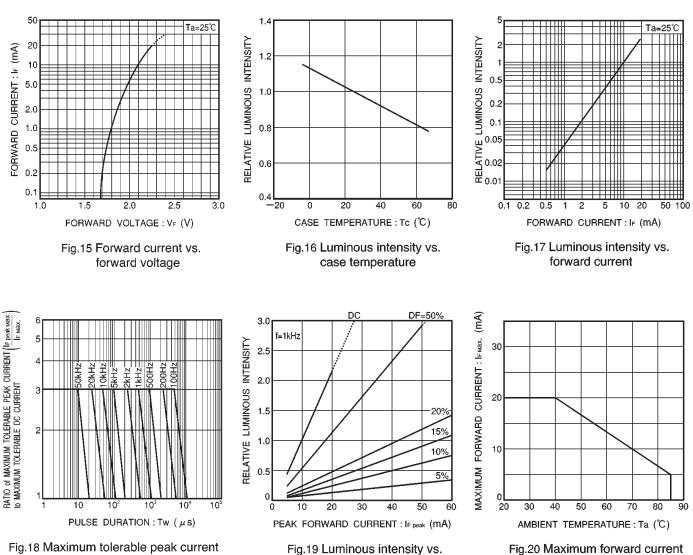
Fig. 8 Maximum forward current vs. ambient temperature





Electrical characteristics 3 (yellow)

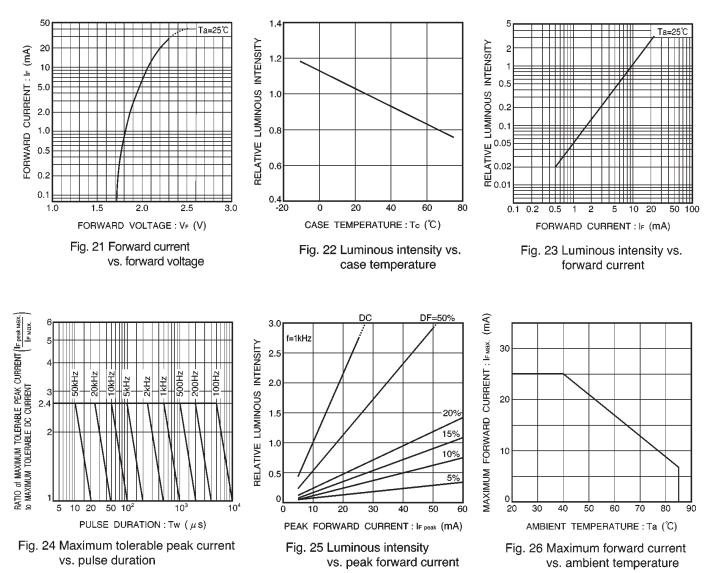
vs. ambient temperature



peak forward current

vs. pulse duration

Electrical characteristic curves 4 (green)



rohm