

# SLR-342 series

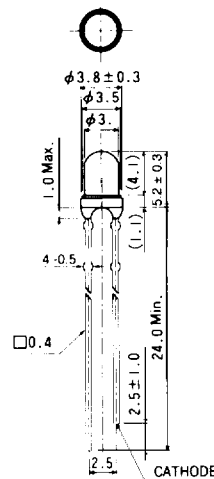
# LED, flat disk type, direct mount

The SLR-342 series LEDs are small, reflecting, high brightness single color LEDs.

## Dimensions (Units : mm)

### Features

- single LED per package
- diameter of lens = 3.1 mm
- height as low as 5.2 mm
- mounting pitch as small as 2.5 mm
- available in red, orange, yellow and green with choice of tinted diffused or tinted non-diffused lens
- available on tape for mounting by an automatic machine



### Selection guide

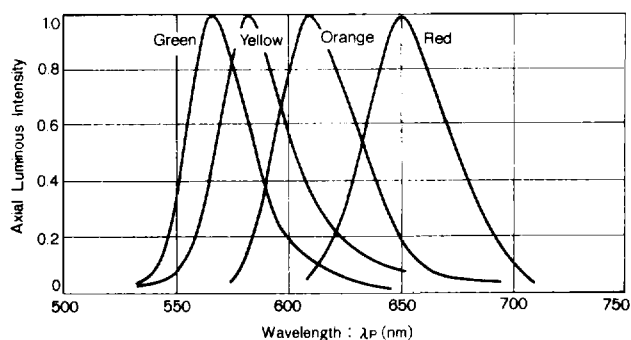
Part no.	SLR-342VR	SLR-342DU	SLR-342YY	SLR-342MG
Color & wavelength	Red, 650 nm	Orange, 610 nm	Yellow, 585 nm	Green, 563 nm
Lens	Tinted diffused	Tinted diffused	Tinted diffused	Tinted diffused
Availability	standard	standard	standard	standard
Part no.	SLR-342VC	SLR-342DC	SLR-342YC	SLR-342MC
Color & wavelength	Red, 650 nm	Orange, 610 nm	Yellow, 585 nm	Green, 563 nm
Lens	Tinted non-diffused	Tinted non-diffused	Tinted non-diffused	Tinted non-diffused
Availability	standard	standard	standard	standard

### Absolute maximum ratings (T<sub>a</sub> = 25°C)

Parameter	Symbol	Limits	Unit	Conditions
Power dissipation	MG & MC type	75	mW	
	All others	60	mW	
Forward current	MG & MC type	25	mA	
	All others	20	mA	
Peak forward current	I <sub>FP</sub>	60	mA	Pulse width 1 ms, duty 20%
Reverse voltage	V <sub>R</sub>	3	V	
Operating temperature	T <sub>opr</sub>	-25 ~ +85	°C	
Storage temperature	T <sub>stg</sub>	-30 ~ +100	°C	

**Electro-optical characteristics ( $T_a = 25^\circ\text{C}$ )**

Parameter		Symbol	Min	Typical	Max	Unit	Conditions
Forward voltage	Red Orange	$V_F$		2.0	3.0	V	$I_F = 10\text{ mA}$
	Yellow Green			2.1			
Reverse current		$I_R$			10	$\mu\text{A}$	$V_R = 3\text{ V}$
Peak wavelength		$\lambda_p$		Red 650 Orange 610 Yellow 585 Green 563		nm	$I_F = 10\text{ mA}$
Spectral half-width		$\Delta\lambda$		40		nm	$I_F = 10\text{ mA}$
Emission power half angle	Non-diffused	$2\theta_{1/2}$		40		deg	
	Diffused			40			

**Figure 1 Luminous intensity vs wavelength**

**Luminous intensity**

Part no.	Color	$\lambda_p$	Min	Typical	Max	Unit	Conditions
SLR-342VR	Red	650	3.6	10.0		mcd	For $I_F = 10\text{ mA}$
SLR-342VC			6.6	16.0		mcd	
SLR-342DU	Orange	610	3.6	10.0		mcd	
SLR-342DC			5.6	16.0		mcd	
SLR-342YY	Yellow	585	2.2	6.3		mcd	
SLR-342YC			5.6	16.0		mcd	
SLR-342MG	Green	563	5.6	16.0		mcd	
SLR-342MC			9.0	25.0		mcd	

Electrical characteristic curves 1 (Red)

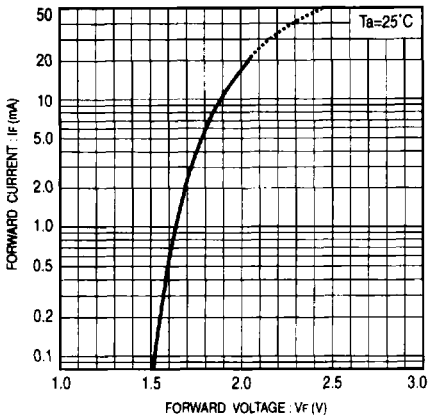


Figure 2

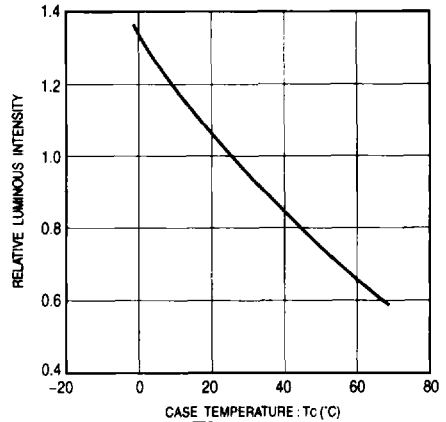


Figure 3

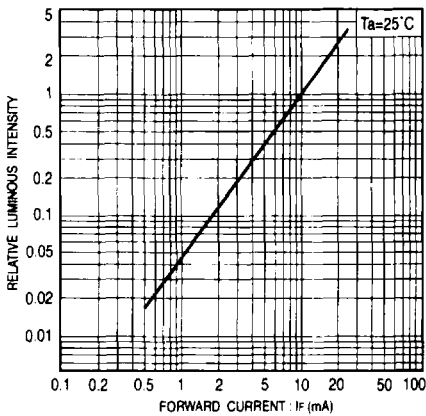


Figure 4

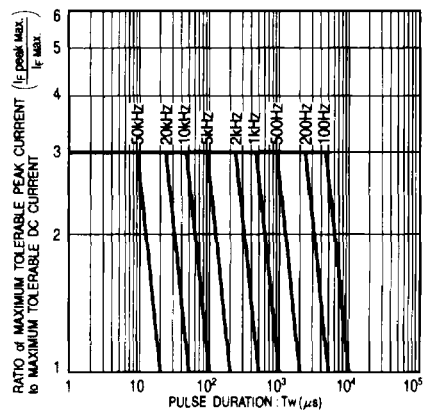


Figure 5

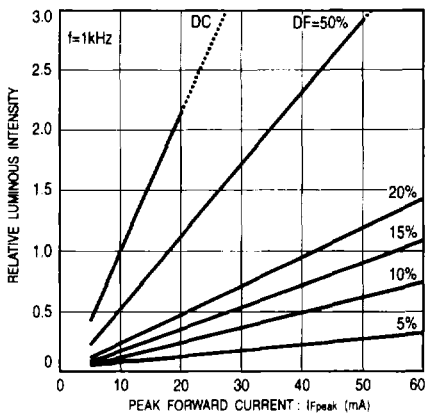


Figure 6

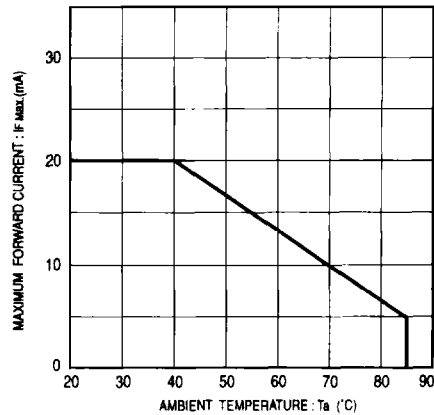
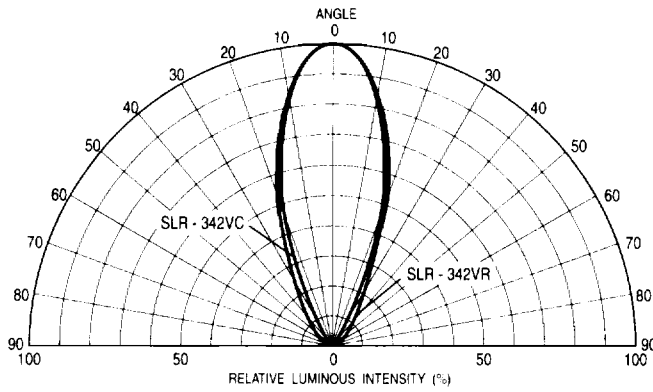
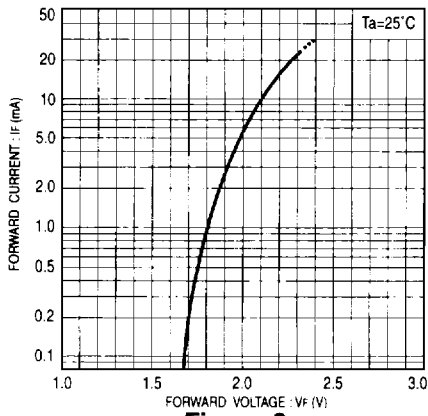


Figure 7

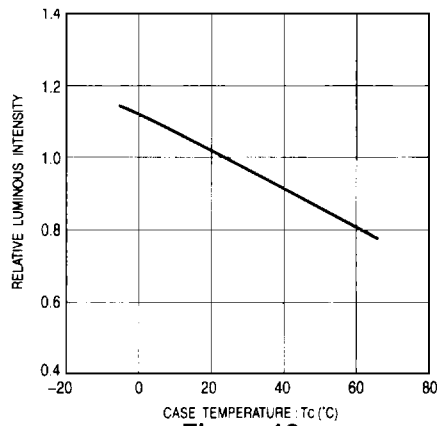


**Figure 8** Directional pattern (red)

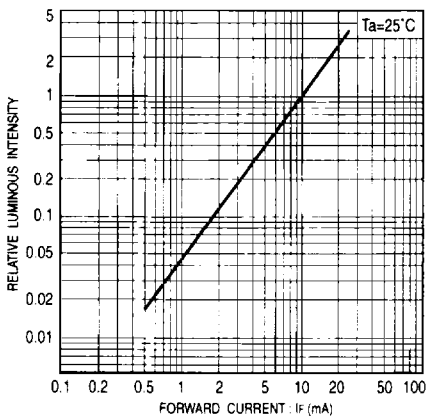
**Electrical characteristic curves 2 (Orange)**



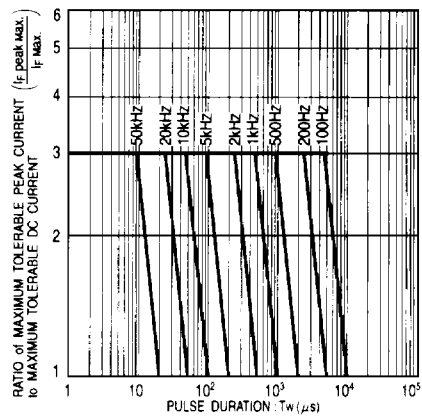
**Figure 9**



**Figure 10**



**Figure 11**



**Figure 12**

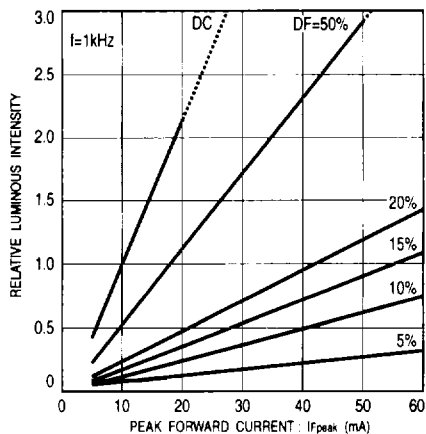


Figure 13

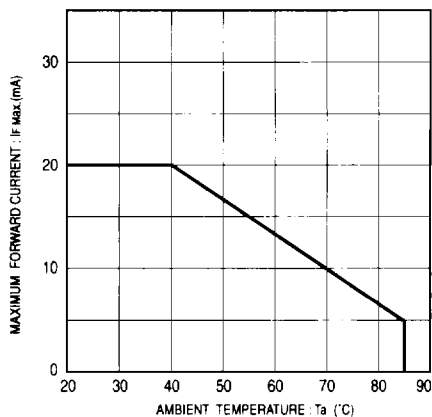


Figure 14

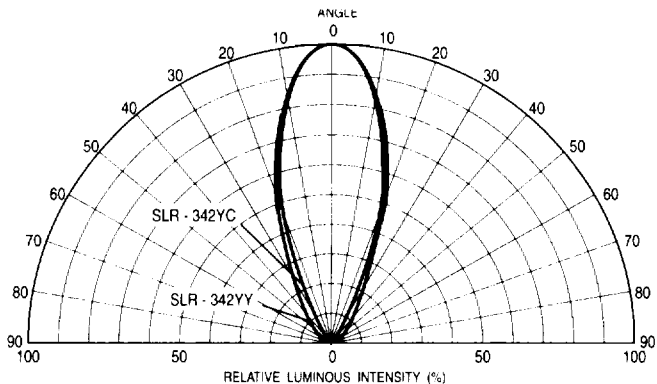


Figure 15 Directional pattern (orange)

Electrical characteristic curves 3 (Yellow)

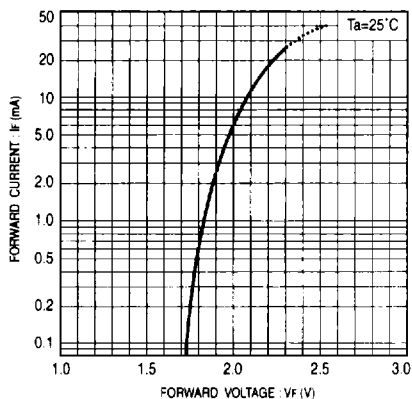


Figure 16

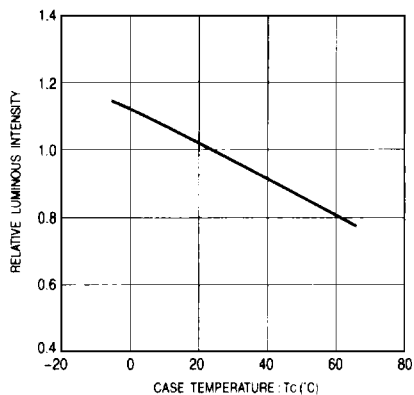
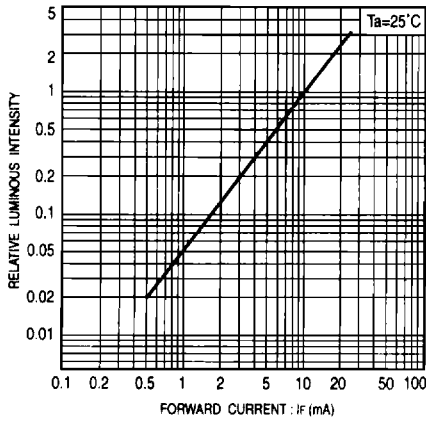
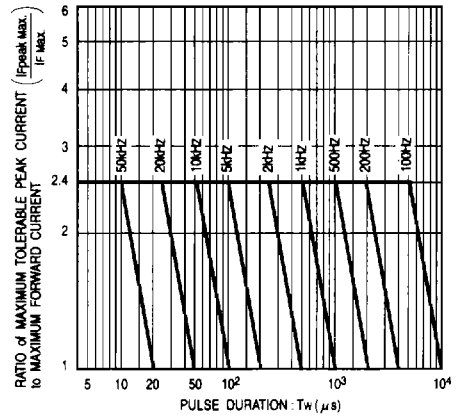


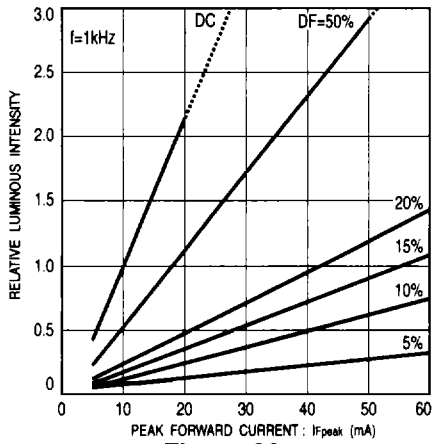
Figure 17



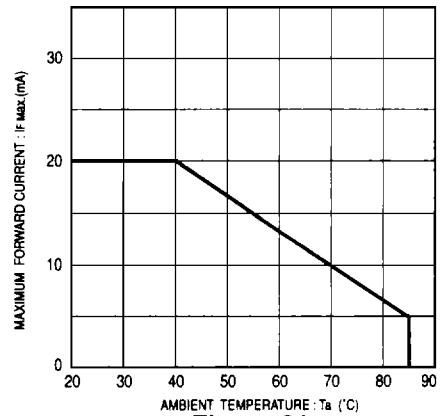
**Figure 18**



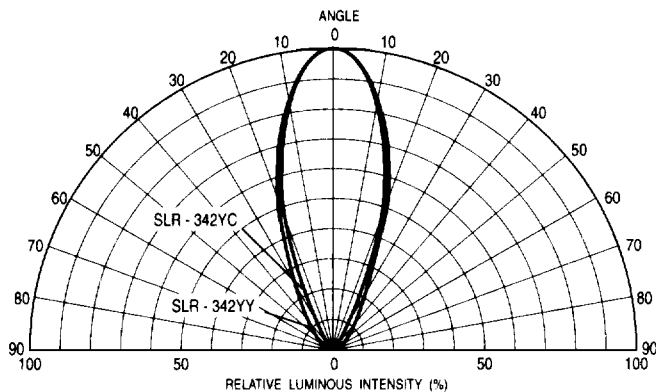
**Figure 19**



**Figure 20**



**Figure 21**



**Figure 22 Directional pattern (yellow)**

Electrical characteristic curves 4 (Green)

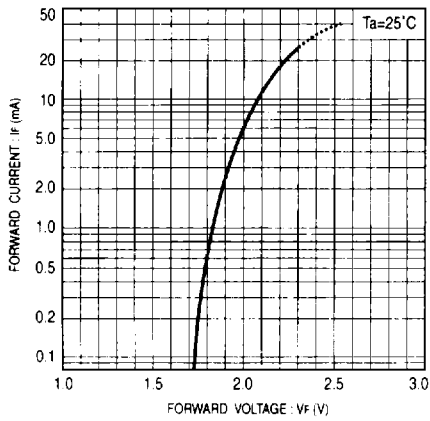


Figure 23

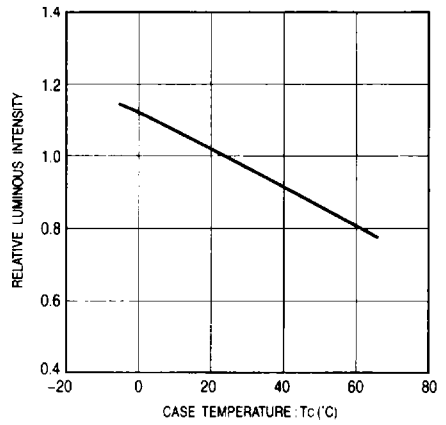


Figure 24

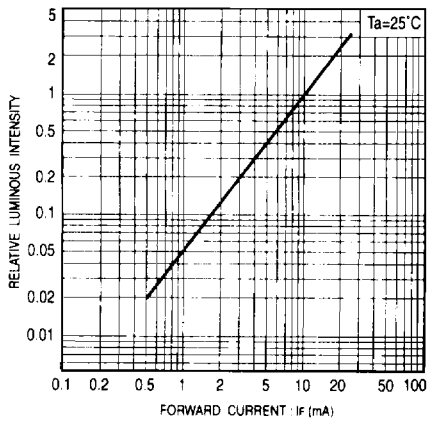


Figure 25

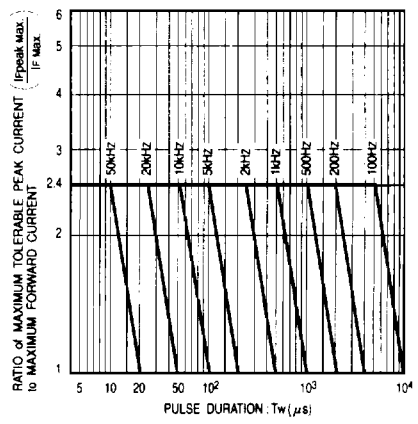


Figure 26

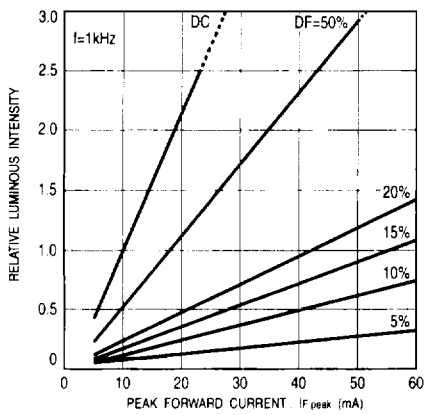


Figure 27

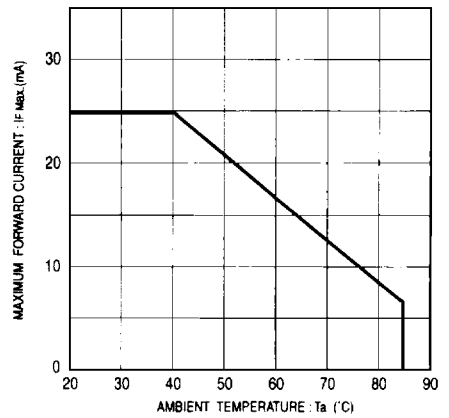
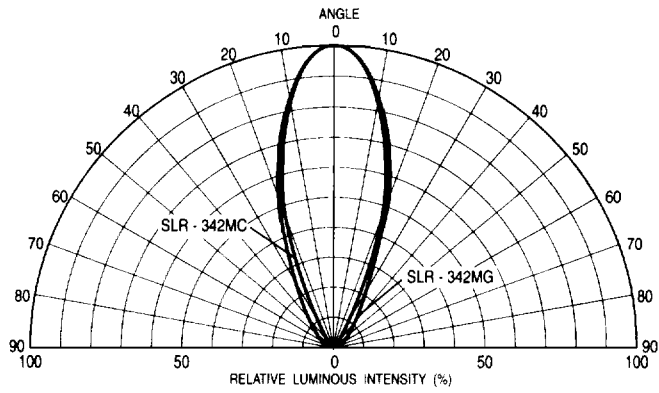


Figure 28



**Figure 29 Directional pattern (green)**



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