

SLR-37VC3F Datasheet



DiGi Electronics Part Number	SLR-37VC3F-DG
Manufacturer	Rohm Semiconductor
Manufacturer Product Number	SLR-37VC3F
Description	LED RED CLEAR 3MM T/H
Detailed Description	Red LED Indication - Discrete 2V Radial

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Purchase and inquiry

Manufacturer Product Number:

SLR-37VC3F

Series:

SLR-37

Color:

Red

Lens Color:

Red

Millicandela Rating:

16mcd

Lens Size:

3.10mm Dia

Current - Test:

10mA

Mounting Type:

Through Hole

Wavelength - Peak:

650nm

Package / Case:

Radial

Size / Dimension:

-

Base Product Number:

SLR-37

Manufacturer:

Rohm Semiconductor

Product Status:

Obsolete

Configuration:

Standard

Lens Transparency:

Clear

Lens Style:

Round with Domed Top

Voltage - Forward (Vf) (Typ):

2V

Viewing Angle:

50°

Wavelength - Dominant:

-

Features:

-

Supplier Device Package:

3mm

Height (Max):

5.00mm

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8541.41.0000

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

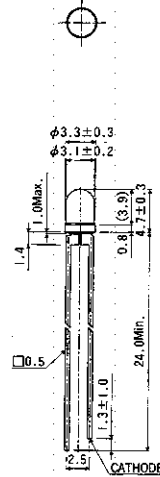
EAR99

SLR-37 series**LED, reflecting, high brightness, 3.0 mm**

The SLR-37 series LEDs are small, reflecting, high brightness single color LEDs.

Features

- single LED per package
- diameter of lens = 3.1 mm
- height as low as 4.7 mm
- mounting pitch as small as 2.5 mm
- available in red, orange, yellow, and green with a choice of tinted diffused or tinted non-diffused lens
- available on tape for mounting by an automatic machine

Dimensions (Units : mm)**Selection guide**

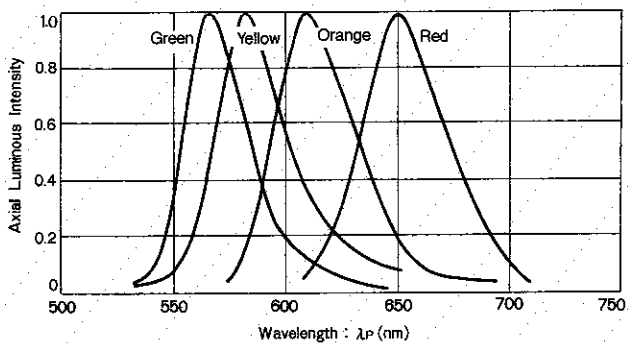
Part no Color & wavelength Lens Availability	SLR-37VR Red, 650 nm Tinted diffused semi-std	SLR-37DU Orange, 610 nm Tinted diffused semi-std	SLR-37YY Yellow, 585 nm Tinted diffused semi-std	SLR-37MG Green, 563 nm Tinted diffused semi-std
Part no Color & wavelength Lens Availability	SLR-37VC Red, 650 nm Tinted non-diffused semi-std			SLR-37MC Green, 563 nm Tinted non-diffused semi-std

Absolute maximum ratings (T_a = 25°C)

Parameter	Symbol	Red	Orange	Yellow	Green	Unit	Conditions
		SLR-37VR SLR-37VC	SLR-37DU	SLR-37YY	SLR-37MG SLR-37MC		
Power dissipation	P _d	60	60	60	75	mW	
Forward current	I _F	20	20	20	25	mA	
Peak forward current	I _{FP}	60	60	60	60	mA	Pulse width 1 ms, duty 20%
Reverse voltage	V _R	3	3	3	3	V	
Operating temperature	T _{opr}	-25 ~ +85				°C	
Storage temperature	T _{stg}	-30 ~ +100				°C	

SLR-37 series Direct-mount LED lamps, high brightness, reflector type**Electro-optical characteristics ($T_a = 25^\circ\text{C}$)**

Parameter	Symbol	Red		Orange		Yellow		Green		Unit	Conditions
		Typ	Max	Typ	Max	Typ	Max	Typ	Max		
Forward voltage	V_F	2.0	3.0	2.0	3.0	2.1	3.0	2.1	3.0	V	$I_F = 10\text{ mA}$
Reverse current	I_R		10		10		10		10	μA	$V_R = 3\text{ V}$
Peak wavelength	λ_p	650		610		585		563		nm	$I_F = 10\text{ mA}$
Spectral half-width	$\Delta\lambda$	40		40		40		40		nm	$I_F = 10\text{ mA}$
Emission power half angle	$2\theta_{1/2}$	50		55		55		50		deg	Non-diffused
		55		55		55		55			Diffused

Luminous intensity**Luminous intensity**

Part no.	Color	λ_p	Min	Typical	Max	Unit	Conditions
SLR-37VR	Red	650	3.6	10		mcd	$I_F = 10\text{ mA}$
SLR-37VC			5.6	16		mcd	
SLR-37DU	Orange	610	3.6	10		mcd	
SLR-37YY	Yellow	585	3.6	10		mcd	
SLR-37MG	Green	563	5.6	16		mcd	
SLR-37MC			9.0	25		mcd	

Direct-mount LED lamps, high brightness, reflector type **SLR-37 series**

Electrical characteristic curves 1 (Red)

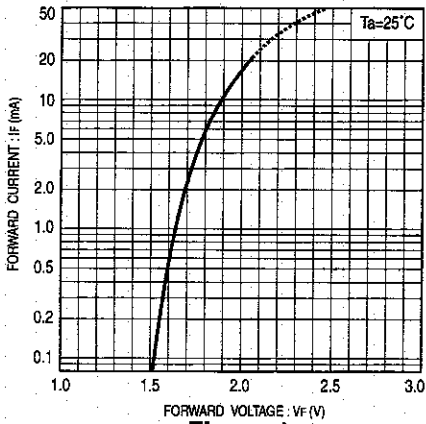


Figure 1

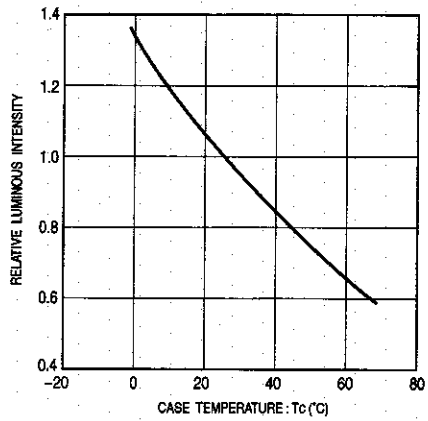


Figure 2

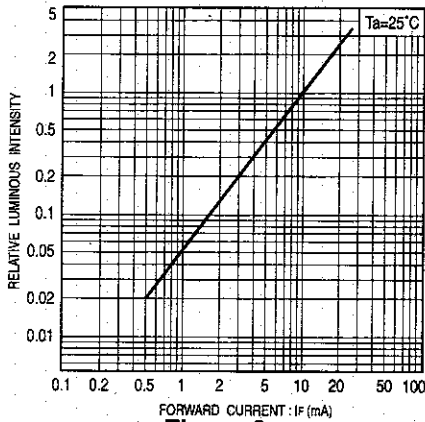


Figure 3

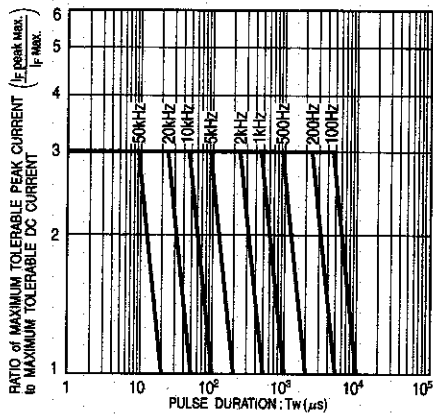


Figure 4

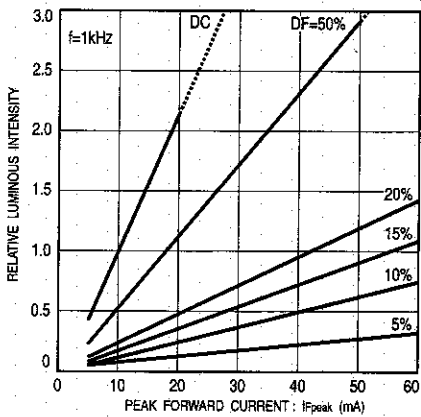


Figure 5

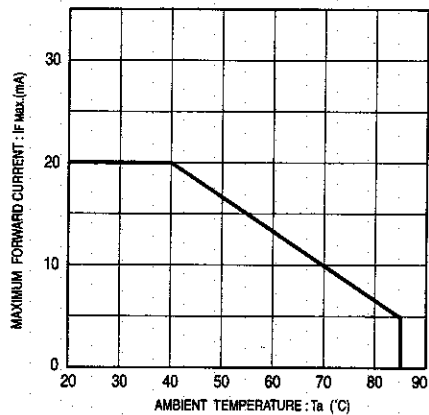


Figure 6

SLR-37 series Direct-mount LED lamps, high brightness, reflector type

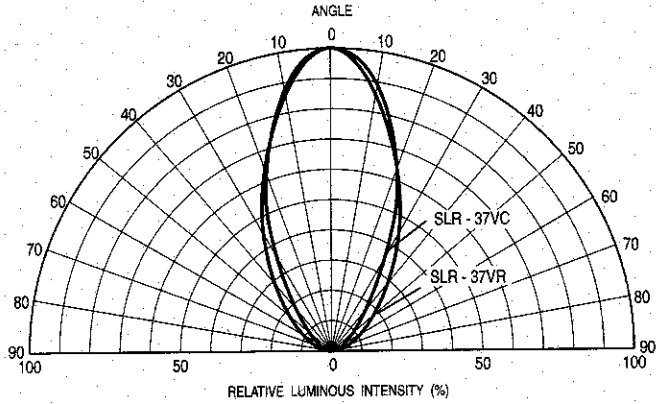


Figure 7 Directional pattern (red)

Electrical characteristic curves 2 (Orange)

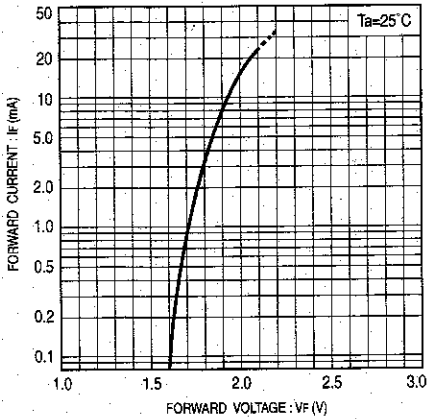


Figure 8

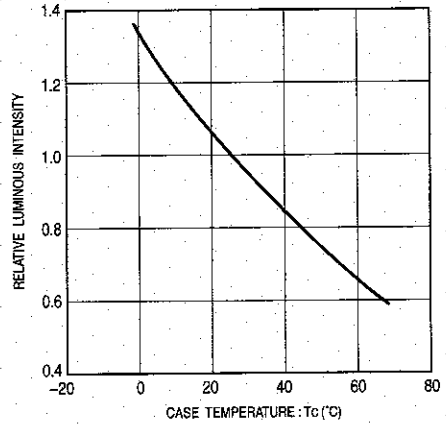


Figure 9

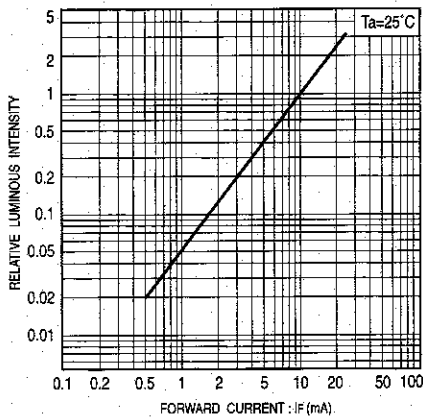


Figure 10

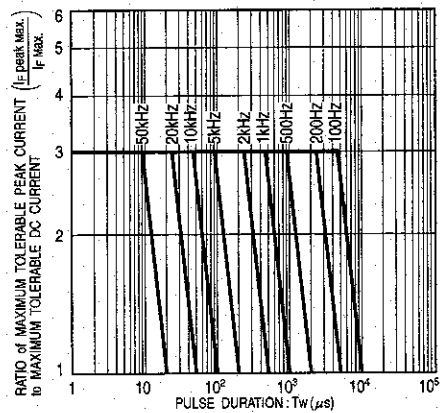


Figure 11

Direct-mount LED lamps, high brightness, reflector type **SLR-37 series**

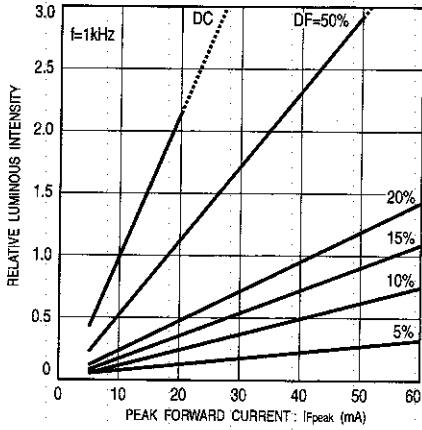


Figure 12

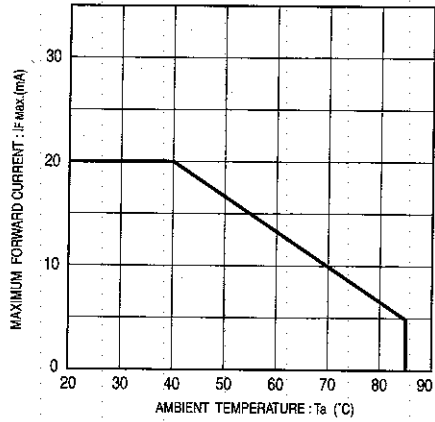


Figure 13

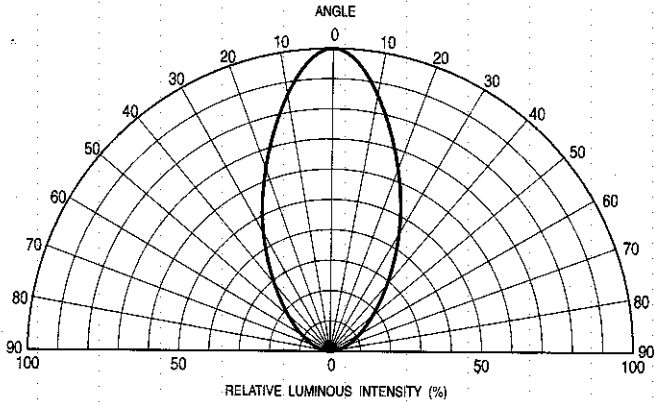


Figure 14 Directional pattern (orange)

Electrical characteristic curves 3 (Yellow)

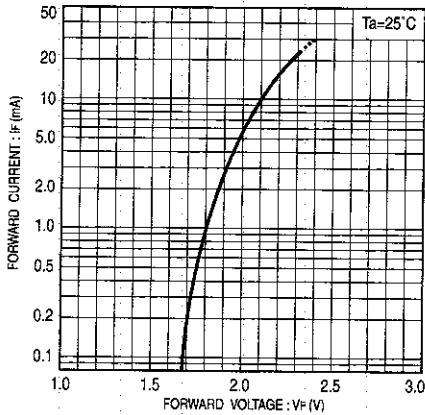


Figure 15

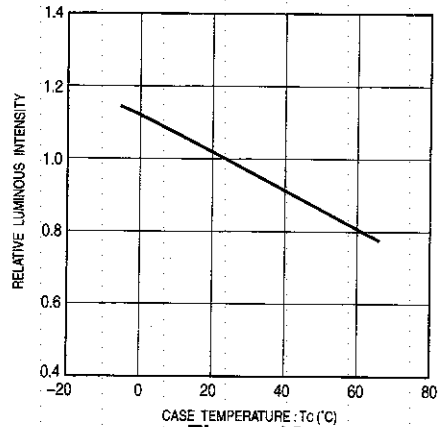


Figure 16

SLR-37 series Direct-mount LED lamps, high brightness, reflector type

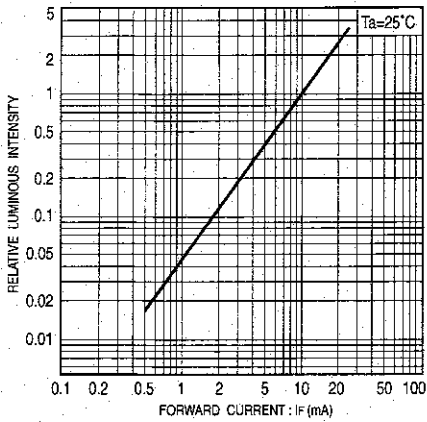


Figure 17

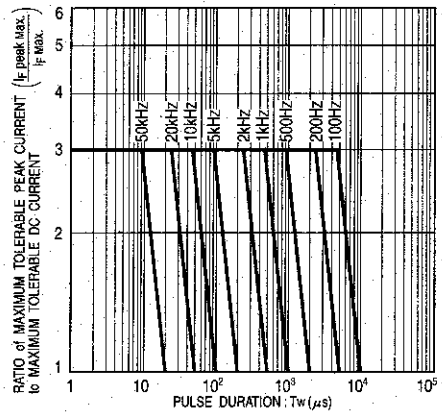


Figure 18

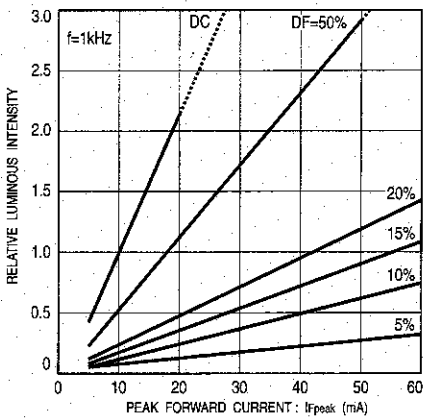


Figure 19

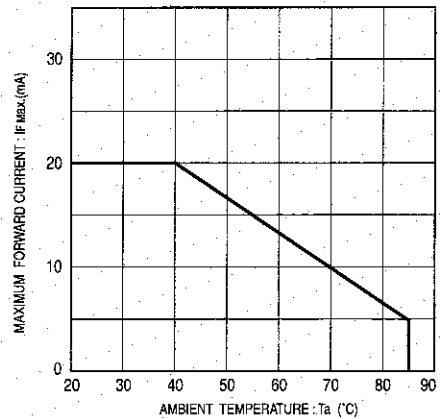


Figure 20

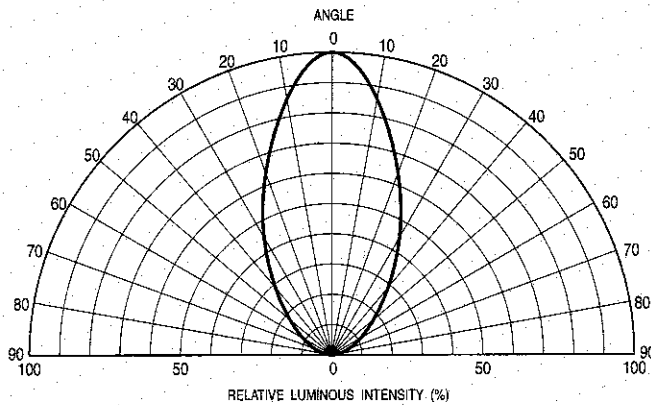


Figure 21 Directional pattern (yellow)

Direct-mount LED lamps, high brightness, reflector type **SLR-37 series**

Electrical characteristic curves 4 (Green)

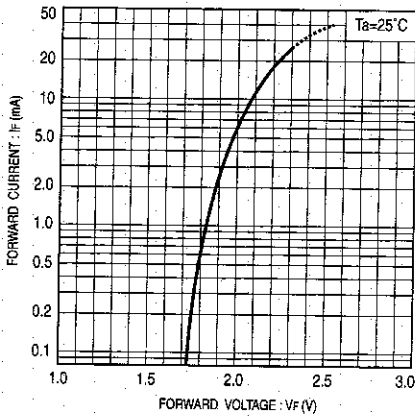


Figure 22

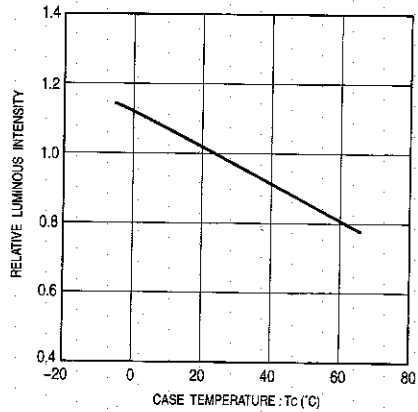


Figure 23

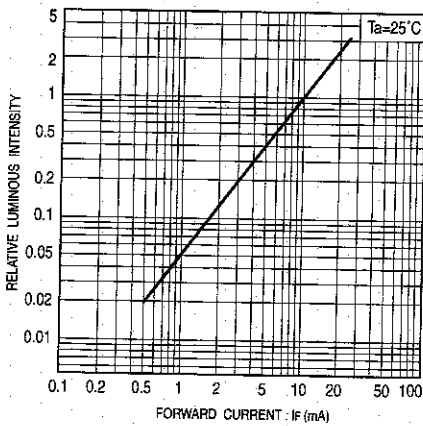


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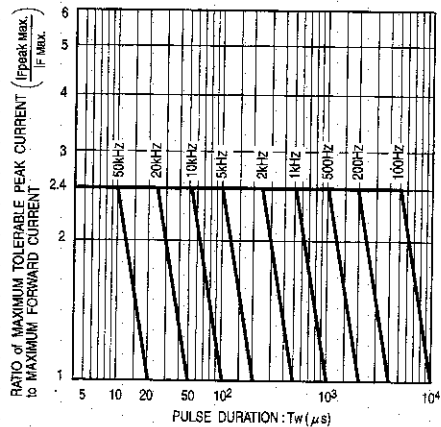


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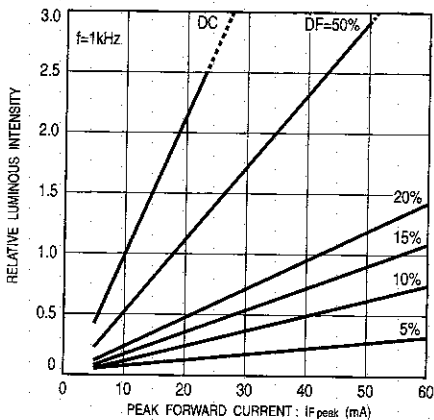


Figure 26

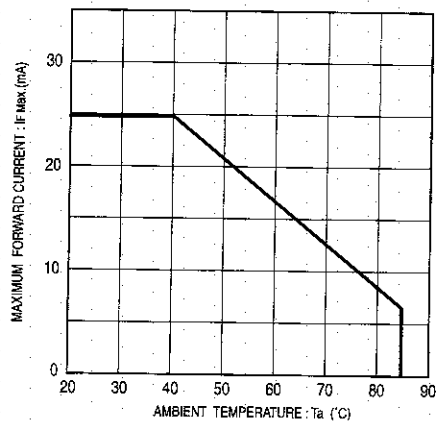
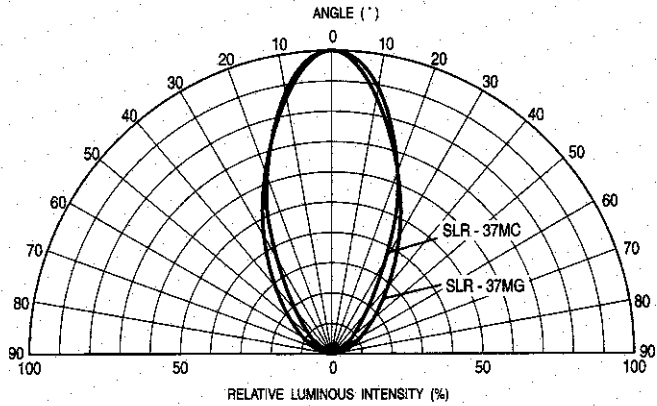


Figure 27

SLR-37 series Direct-mount LED lamps, high brightness, reflector type**Figure 28** Directional pattern (green)

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