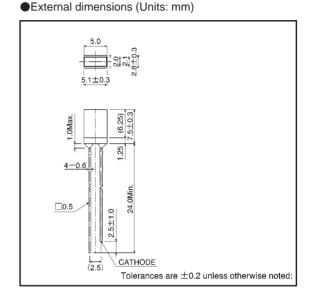
## **LED** lamps

# Small rectangular LEDs (2×5 mm) SLB-25 Series

The SLB-25 series are  $2 \times 5$  mm rectangular LEDs with a high luminous efficiency. They are available in four colors and are suitable for use in a wide variety of applications.

#### Features

- 1) Small and rectangular (2  $\times$  5 mm) with uniform light emission.
- 2) High luminance.
- 3) Four colors : red, orange, yellow and green.
- 4) Colored diffused lens.
- 5) High reliability.



#### Selection guide

Emitting color Lens	Red	Orange	Yellow	Green	
Colored diffused	SLB-25VR	SLB-25DU	SLB-25YY	SLB-25MG	

#### •Absolute maximum ratings (Ta = $25^{\circ}$ C)

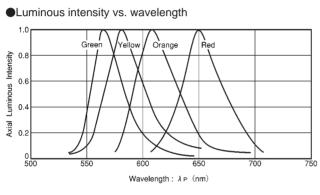
Parameter	Symbol	Red	Orange	Yellow	Green	Unit			
	Symbol	SLB-25VR SLB-25DU SLB-25YY S		SLB-25MG	Unit				
Power dissipation	P⊳	60	60 60 60 75		mW				
Forward current	İF	20	20	20	25	mA			
Peak forward current	IFP	60*	60* 60* 60* 60*		60*	mA			
Reverse voltage	VR	3	3	3	3	V			
Operating temperature	Topr		°C						
Storage temperature	Tstg	-30~+100							
Soldering temperature	—	260°C 5 seconds maximum							
yr. Buloo width 1mo Duty 1 / F									

\* Pulse width 1ms Duty 1 / 5

# **LED** lamps

Parameter Symbol	Symbol	bol 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 <sub>R</sub> =3V		—	10	—	—	10		—	10	-	-	10	μA
Peak wavelength	λp	l⊧=10mA		650	-	—	610	—	-	585	—	-	563	—	nm
Spectral line half width	Δλ	l⊧=10mA	Ι	40	_	_	40	_	Ι	40	_	1	40	_	nm
Viewing angle	2 <i>0</i> 1/2	Diffused		120	_	_	120	_	_	120	_	_	120	_	deg

•Electrical and optical characteristics (Ta =  $25^{\circ}$ C)



#### Fig.1

## Luminous intensity

Color	λP	Туре	Min.	Тур.	Max.	Unit
Red	650	SLB-25VR	0.36	1.0	—	mcd
Orange	610	SLB-25DU	0.36	1.0	—	mcd
Yellow	585	SLB-25YY	0.36	1.0	_	mcd
Green	563	SLB-25MG	0.36	1.0	_	mcd

Note: Measured at IF = 10 mA

Directional pattern

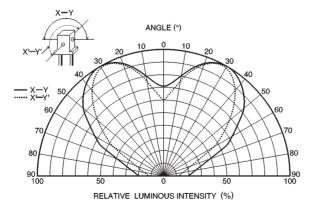
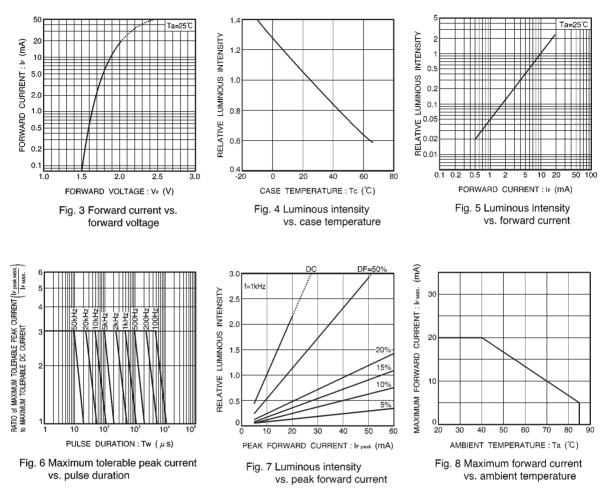
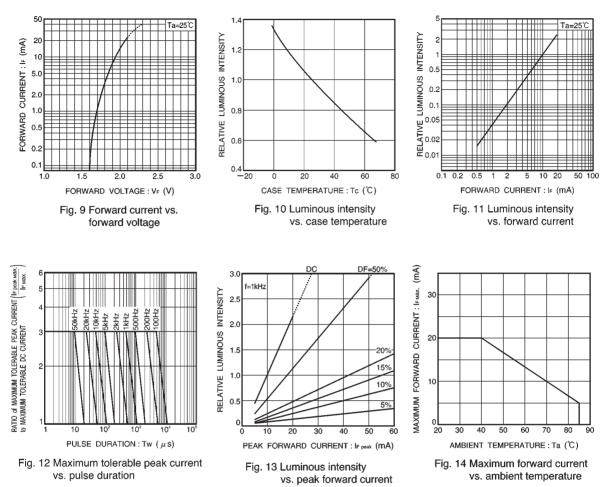


Fig. 2 Diffused type

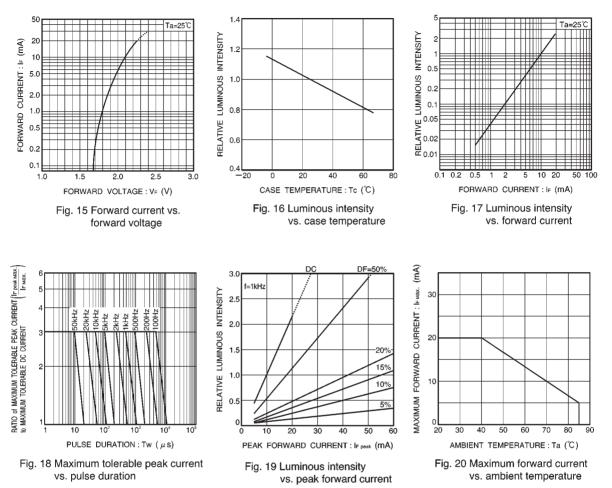
Electrical characteristic curves 1 (red)



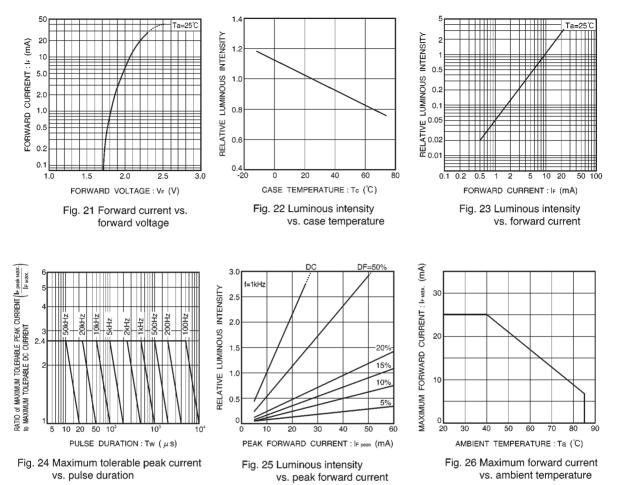
Electrical characteristic curves 2 (orange)



Electrical characteristic curves 3 (yellow)



### Electrical characteristic curves 4 (green)



Rohm