

# SLB-25 Series

## Features

- Viewing angle  $2\theta$  1/2 : 160°



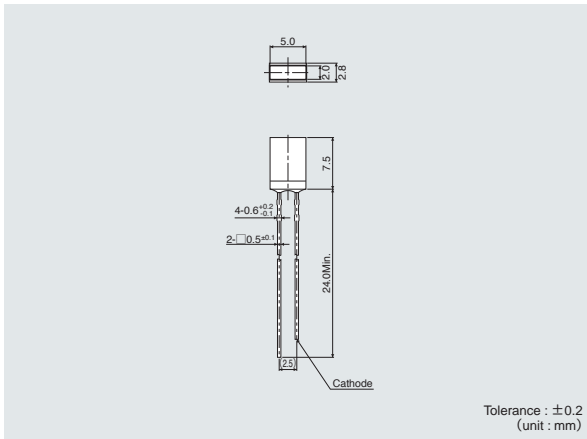
## Specifications

Viewing angle  $2\theta$  1/2 / 160°: Standard

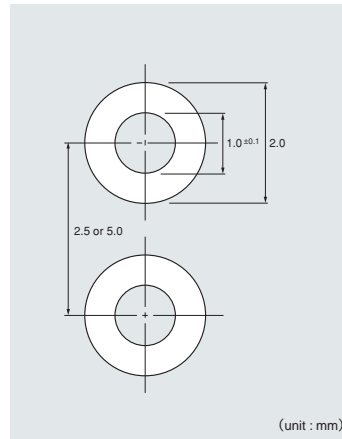
Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25°C)					Electrical and Optical Characteristics (Ta=25°C)									
			Power Dissipation PD(mW)	Forward Current IF(mA)	Peak Forward Current IFP(mA)	Reverse Voltage VR(V)	Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)	Forward Voltage VF(Typ. V)	Reverse Current IR(Max. (μA))	VR(V)	Dominant Wavelength λD Typ.(nm)	Luminous Intensity Iv(Lv Min. (mcd) / Typ. (mcd) / Iv(mA))				
■ SLB-25VR	GaAsP on GaP	Red	60	20	60*	3	-25 to +85	-30 to +100	2.0	10	10	3	630	10	0.36	1.0	10
■ SLB-25DU		Orange							605								
■ SLB-25YY		Yellow							587								
■ SLB-25MG	GaP	Yellowish Green	75	25					2.1				572				

\*:Duty1/5, 200Hz

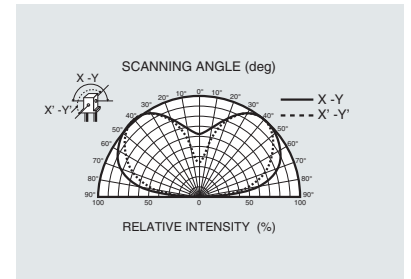
## Dimensions



## Recommended Solder Pattern

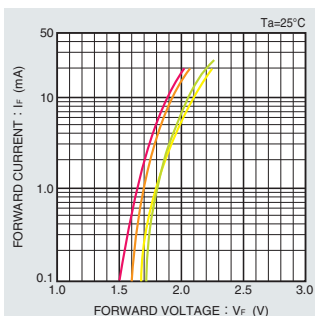


## Viewing Angle

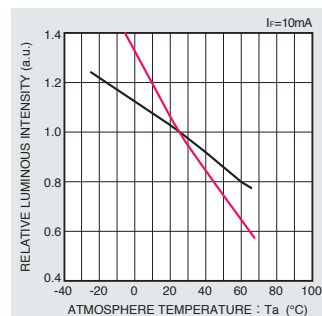


## Electrical Characteristics Curves

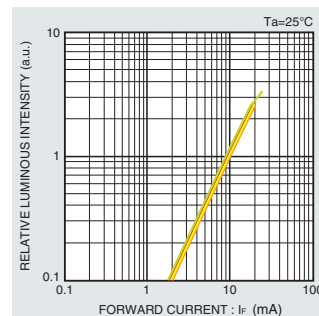
### Forward Current-Forward Voltage



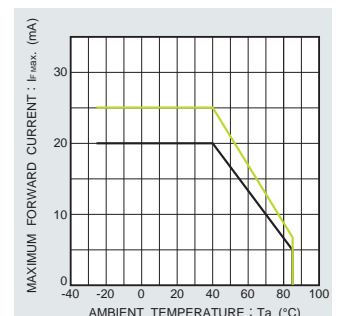
### Luminous Intensity-Atmosphere Temperature



### Luminous Intensity-Forward Current



### Derating



- SLB-25VR
- SLB-25DU
- SLB-25YY
- SLB-25MG

- SLB-25VR
- SLB-25DU
- SLB-25YY
- SLB-25MG

- SLB-25VR
- SLB-25DU
- SLB-25YY
- SLB-25MG

- SLB-25VR
- SLB-25DU
- SLB-25YY
- SLB-25MG

Rank Reference of Brightness

Red (V)

(Ta=25°C, If=10mA)

Viewing angle (2θ1/2)	Brightness Rank	Resin Color	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V
			Brightness (mcd)		Brightness (mcd)		Brightness (mcd)		Brightness (mcd)		Brightness (mcd)		Brightness (mcd)		Brightness (mcd)		Brightness (mcd)	
160°	Diffused Colored		0.40 to 0.63	0.63 to 1.0	1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630
2X5 Square type	160°	Diffused Colored	*SLB-25VR															

Orange (D)

(Ta=25°C, If=10mA)

Viewing angle (2θ1/2)	Brightness Rank	Resin Color	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V
			Brightness (mcd)		Brightness (mcd)		Brightness (mcd)		Brightness (mcd)		Brightness (mcd)		Brightness (mcd)		Brightness (mcd)		Brightness (mcd)	
160°	Diffused Colored		0.40 to 0.63	0.63 to 1.0	1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630
2X5 Square type	160°	Diffused Colored	*SLB-25DU															

Yellow (Y)

(Ta=25°C, If=10mA)

Viewing angle (2θ1/2)	Brightness Rank	Resin Color	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V
			Brightness (mcd)		Brightness (mcd)		Brightness (mcd)		Brightness (mcd)		Brightness (mcd)		Brightness (mcd)		Brightness (mcd)		Brightness (mcd)	
160°	Diffused Colored		0.40 to 0.63	0.63 to 1.0	1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630
2X5 Square type	160°	Diffused Colored	*SLB-25YY															

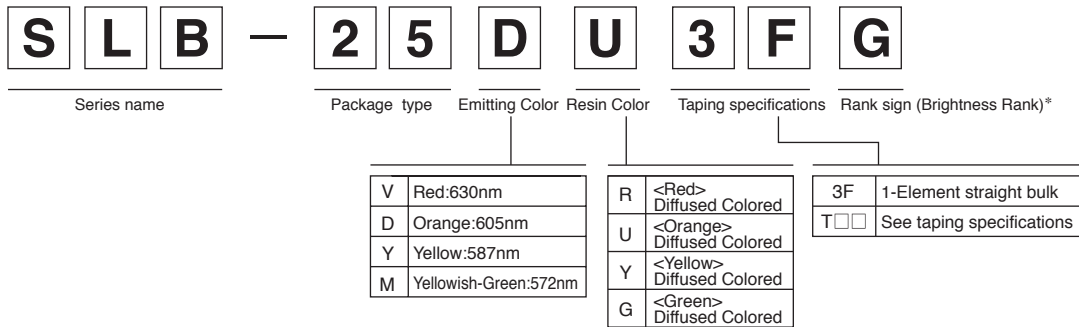
Green (M)

(Ta=25°C, If=10mA)

Viewing angle (2θ1/2)	Brightness Rank	Resin Color	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V
			Brightness (mcd)		Brightness (mcd)		Brightness (mcd)		Brightness (mcd)		Brightness (mcd)		Brightness (mcd)		Brightness (mcd)		Brightness (mcd)	
160°	Diffused Colored		0.40 to 0.63	0.63 to 1.0	1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630
2X5 Square type	160°	Diffused Colored	*SLB-25MG															

\*Brightness on specification sheet include tolerance of within ± 10%.

Part No. Construction



- \* Concerning the Brightness rank
- Please refer to the rank chart above for luminous intensity classification.
- Part name is individual for each rank.
- When shipped as sample, the part name will be a representative part name. General products are free of ranks. Please contact sales if rank appointment is needed.

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