

# SLI-560 / SLA-560 Series

## Features

- Viewing angle  $2\theta$  1/2 : 40°
- High brightness



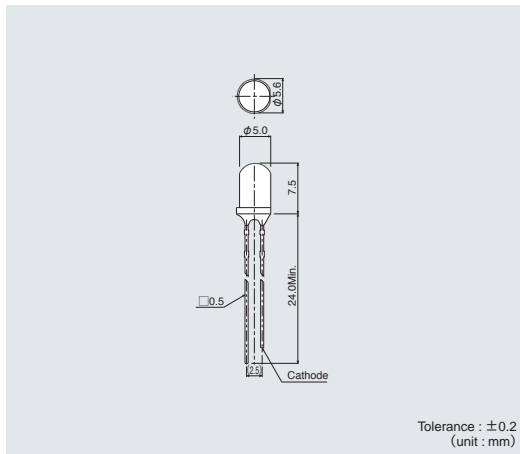
## Specifications

Viewing angle  $2\theta$  1/2 / 40°: High brightness

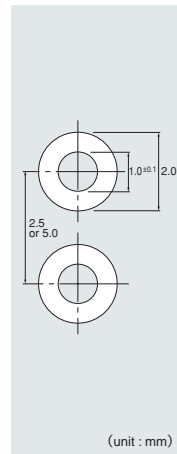
Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25°C)					Electrical and Optical Characteristics (Ta=25°C)									
			Power Dissipation Pd(mW)	Forward Current If(mA)	Peak Forward Current Ifp(mA)	Reverse Voltage VR(V)	Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)	Forward Voltage VF Typ. (V)	IF(mA)	Reverse Current IR Max. (μA)	VR(V)	Dominant Wavelength λD Typ.(nm)	IF(mA)	Luminous Intensity I <sub>v</sub> Min. (mcd)	Typ. (mcd)	IF(mA)
■ SLI-560UT	AlGaInP on GaAs	Red											630				
■ SLI-560DT		Orange	125	50	200*2	9	-30 to +85	-40 to +100	1.9	20	100	9	611		300	1000	
■ SLI-560YT		Yellow											591	20			20
■ SLA-560MT	GaP	Yellowish Green	75	25	60*1	4	-25 to +85	-30 to +100	2.3	20	10	4	563		42	100	
■ SLA560BD2T	InGaN	Blue											470		1000	2200	
□ SLA560WBD2PT		White	126	30	100*2	5	-20 to +80	-30 to +100	3.2	20	100	5	(x, y) (0.31, 0.31)		1500	3300	

\* 1:Duty1/5, 200Hz, \* 2:Duty1/10, 1kHz

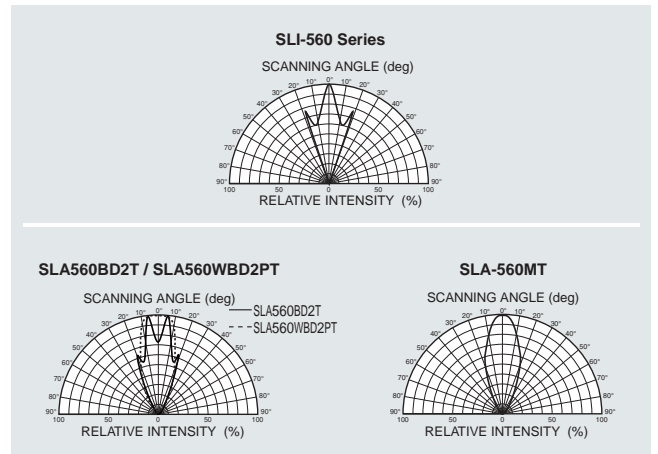
## Dimensions



## Recommended Solder Pattern

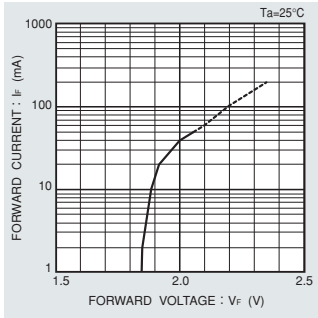


## Viewing Angle

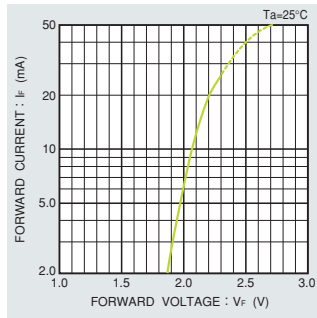


Electrical Characteristics Curves

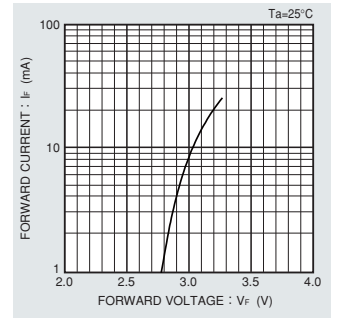
Forward Current-Forward Voltage



- SLI-560UT
- SLI-560DT
- SLI-560YT

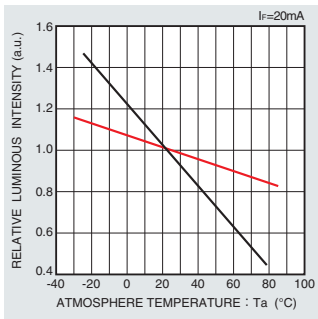


- SLA-560MT

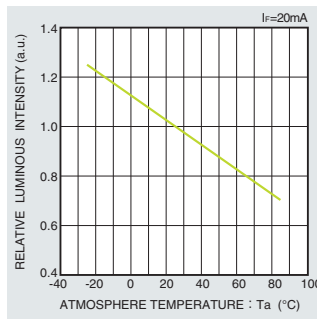


- SLA560BD2T
- SLA560WBD2PT

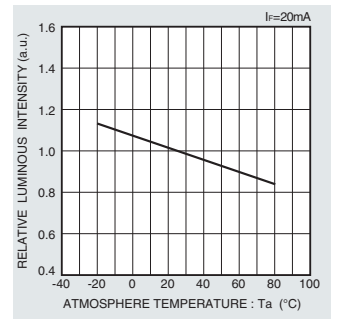
Luminous Intensity-Atmosphere Temperature



- SLI-560DT
- SLI-560YT
- SLI-560UT

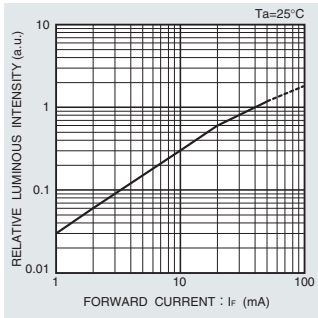


- SLA-560MT

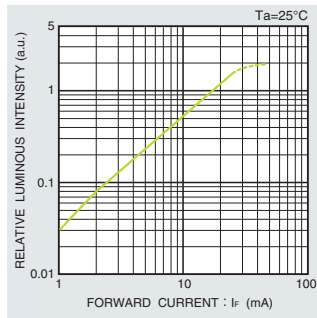


- SLA560BD2T
- SLA560WBD2PT

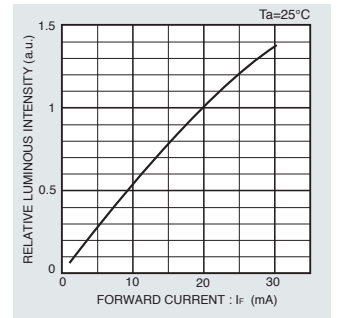
Luminous Intensity-Forward Current



- SLI-560UT
- SLI-560DT
- SLI-560YT

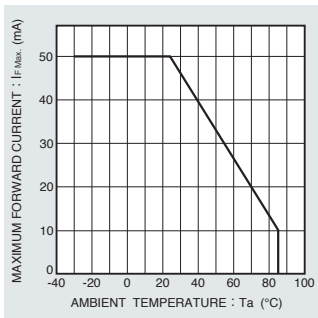


- SLA-560MT

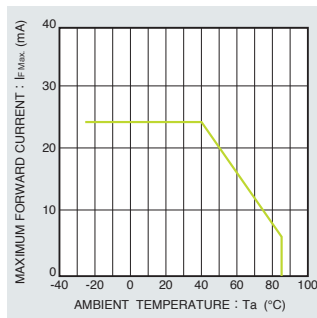


- SLA560BD2T
- SLA560WBD2PT

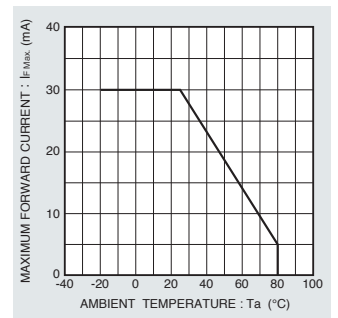
Derating



- SLI-560UT
- SLI-560DT
- SLI-560YT



- SLA-560MT



- SLA560BD2T
- SLA560WBD2PT

# SLI-560 / SLA-560 Series

## Rank Reference of Brightness

### Red (U)

(Ta=25°C, If=20mA)

Viewing angle (2θ1/2)	Resin Color	Brightness Rank															
		Brightness (mcd)	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
φ5 Circular type	40°	47 to 68	68 to 100	100 to 150	150 to 220	220 to 330	330 to 470	470 to 680	680 to 1000	1000 to 1500	1500 to 2200	2200 to 3300	3300 to 4700	4700 to 6800	6800 to 10000	10000 to 15000	
	Transparent Colorless																*SLI-560UT

### Orange (D)

(Ta=25°C, If=20mA)

Viewing angle (2θ1/2)	Resin Color	Brightness Rank															
		Brightness (mcd)	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
φ5 Circular type	40°	47 to 68	68 to 100	100 to 150	150 to 220	220 to 330	330 to 470	470 to 680	680 to 1000	1000 to 1500	1500 to 2200	2200 to 3300	3300 to 4700	4700 to 6800	6800 to 10000	10000 to 15000	
	Transparent Colorless																*SLI-560DT

### Yellow (Y)

(Ta=25°C, If=20mA)

Viewing angle (2θ1/2)	Resin Color	Brightness Rank															
		Brightness (mcd)	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
φ5 Circular type	40°	47 to 68	68 to 100	100 to 150	150 to 220	220 to 330	330 to 470	470 to 680	680 to 1000	1000 to 1500	1500 to 2200	2200 to 3300	3300 to 4700	4700 to 6800	6800 to 10000	10000 to 15000	
	Transparent Colorless																*SLI-560YT

### Green (M)

(Ta=25°C, If=20mA)

Viewing angle (2θ1/2)	Resin Color	Brightness Rank															
		Brightness (mcd)	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
φ5 Circular type	40°	47 to 68	68 to 100	100 to 150	150 to 220	220 to 330	330 to 470	470 to 680	680 to 1000	1000 to 1500	1500 to 2200	2200 to 3300	3300 to 4700	4700 to 6800	6800 to 10000	10000 to 15000	
	Transparent Colorless																*SLA-560MT

### Blue (B)

(Ta=25°C, If=20mA)

Viewing angle (2θ1/2)	Resin Color	Brightness Rank										XT	XU	
		XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS			
φ5 Circular type	40°	150 to 220	220 to 330	330 to 473	470 to 680	680 to 1000	1000 to 1500	1500 to 2200	2200 to 3300	3300 to 4700	4700 to 6800	6800 to 10000	10000 to 15000	
	Transparent Colorless													SLA560BD2T

### White (WB)

(Ta=25°C, If=20mA)

Viewing angle (2θ1/2)	Resin Color	Brightness Rank										
		XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
φ5 Circular type	40°	220 to 330	330 to 473	470 to 680	680 to 1000	1000 to 1500	1500 to 2200	2200 to 3300	3300 to 4700	4700 to 6800	6800 to 10000	10000 to 15000
	Transparent Colorless											SLA560WBD2PT

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

## Part No. Construction

\* "-" will be taken out for emitting color W/B series.

Special Code will be applied for Emitting color W/B series.



U	Red:630nm
D	Orange:611nm
Y	Yellow:591nm
M	Yellowish-Green:563nm
B	Blue:470nm
WB	White

T	Transparent Colorless
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3F	1-Element straight bulk
T	See taping specifications
3	Straight bulk(In case of white LED)
2	Straight taping(In case of white LED)

- \* 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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