SLI-570 / SLA-570 Series

Features

- **Viewing angle 2θ 1/2 : 20° (SLI-570 Series)**
- **Viewing angle 2θ 1/2 : 25° (SLA-570 Series)**
- High brightness

Color Type: U D Y M

Specifications

Viewing angle 2θ 1/2 / 20°: High brightness

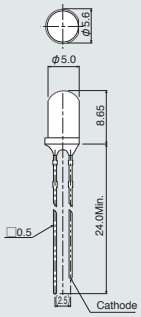
Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25℃)						Electrical and Optical Characteristics (Ta=25℃)								
			Power Dissipation PD(mW)	Forward Current IF(mA)	Peak Forward Current IFP(mA)	Reverse Voltage VR(V)	Operating Temperature Topr(℃)	Storage Temperature Tstg(℃)	Forward Voltage VF Typ. (V)	VF IF(mA)	Reverse Current IR Max. (μA)	VR(V)	Dominant Wavelength λD Typ.(nm)	IF(mA)	Luminous Intensity Iv Min. (mcd)	Typ. (mcd)	IF(mA)
■ SLI-570U2T	AlGaInP on GaAs	Red	125	50	200＊2	9	−30 to +85	−40 to +100	1.9	20	100	9	630	20	2200	4000	20
■ SLI-570DT		Orange											611		900	3000	
■ SLI-570Y2T		Yellow							2.1				591		2200	5200	

Viewing angle 2θ 1/2 / 25°: High brightness

Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25℃)						Electrical and Optical Characteristics (Ta=25℃)								
			Power Dissipation PD(mW)	Forward Current IF(mA)	Peak Forward Current IFP(mA)	Reverse Voltage VR(V)	Operating Temperature Topr(℃)	Storage Temperature Tstg(℃)	Forward Voltage VF Typ. (V)	VF IF(mA)	Reverse Current IR Max. (μA)	VR(V)	Dominant Wavelength λD Typ.(nm)	IF(mA)	Luminous Intensity Iv Min. (mcd)	Typ. (mcd)	IF(mA)
■ SLA-570MT	GaP	Yellowish Green	75	25	60＊1	4	−25 to +85	−30 to +100	2.3	20	10	4	563	20	200	470	20

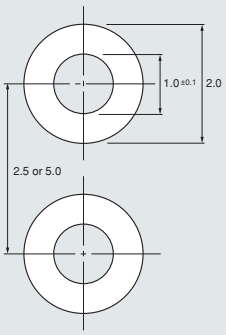
＊1:Duty1/5, 200Hz /＊2:Duty1/10, 1kHz

Dimensions



Tolerance : ±0.2
(unit : mm)

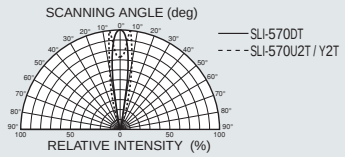
Recommended Solder Pattern



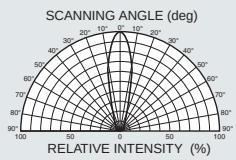
(unit : mm)

Viewing Angle

SLI-570 Series



SLA-570MT



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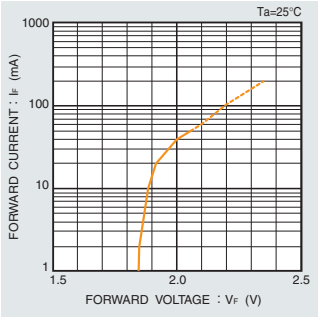
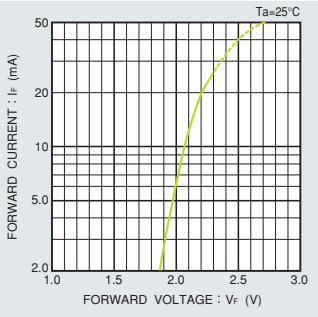
Electrical Characteristics Curves

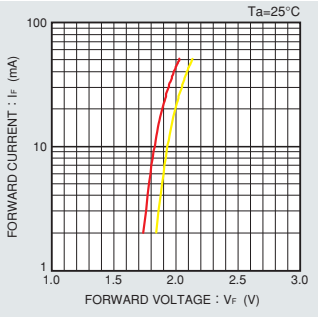
Forward Current-Forward Voltage



SLI-570DT

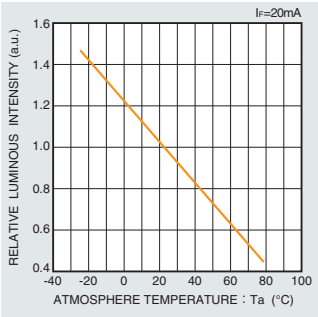


SLA-570MT

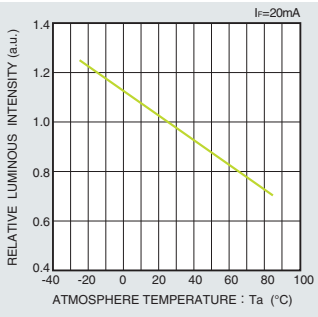


SLI-570U2T
SLI-570Y2T

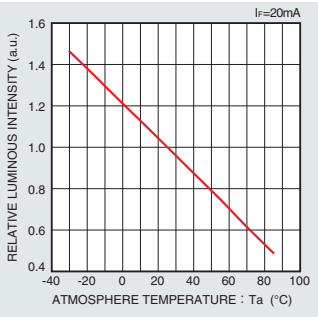
Luminous Intensity-Atmosphere Temperature



SLI-570DT

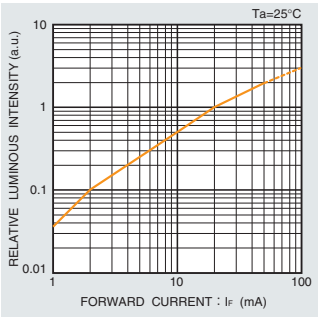


SLA-570MT

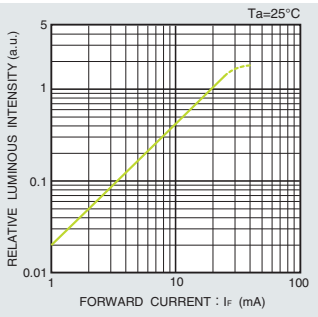


SLI-570U2T
SLI-570Y2T

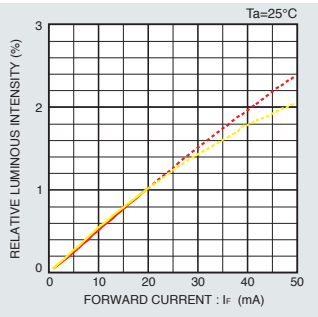
Luminous Intensity-Forward Current



SLI-570DT

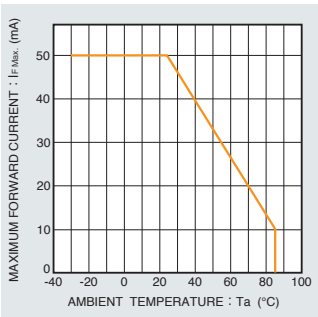


SLA-570MT



SLI-570U2T
SLI-570Y2T

Derating



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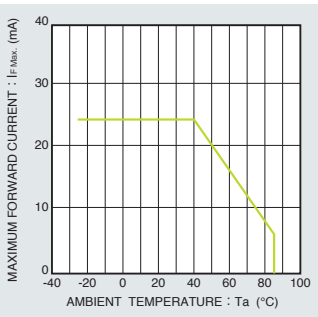
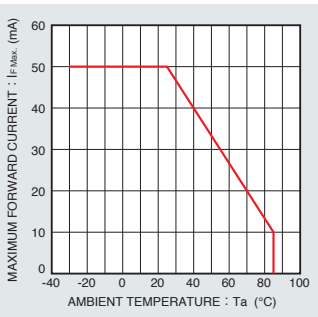


SLA-570MT



SLI-570U2T
SLI-570Y2T

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Rank Reference of Brightness

Red (U)

(Ta=25°C, IF=20mA)

	Viewing angle (2θ1/2)	Brightness Rank	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
		Brightness (mcd) / Resin Color	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
φ5 Circular type	20°	Transparent Colorless											※SLI-570U2T				

Orange (D)

(Ta=25°C, IF=20mA)

	Viewing angle (2θ1/2)	Brightness Rank	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
		Brightness (mcd) / Resin Color	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
φ5 Circular type	20°	Transparent Colorless									※SLI-570DT						

Yellow (Y)

(Ta=25°C, IF=20mA)

	Viewing angle (2θ1/2)	Brightness Rank	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
		Brightness (mcd) / Resin Color	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
φ5 Circular type	20°	Transparent Colorless											※SLI-570Y2T				

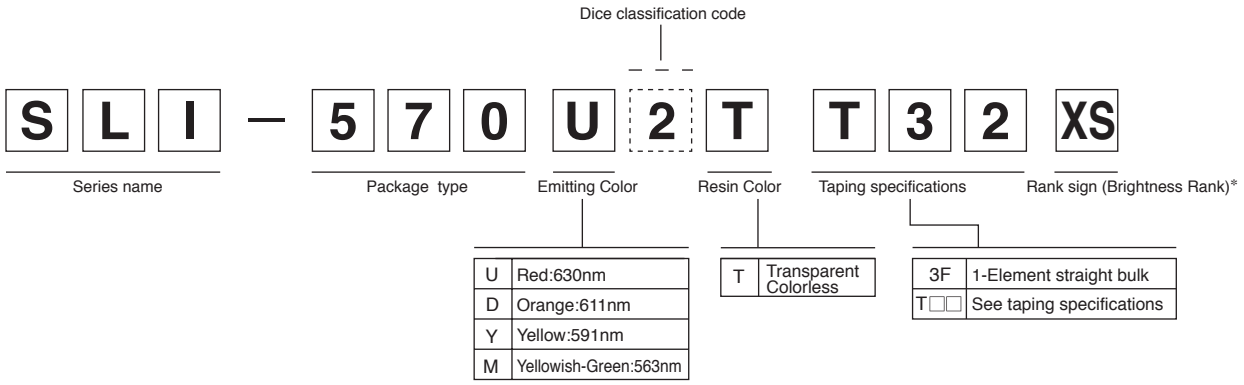
Green (M)

(Ta=25°C, IF=20mA)

	Viewing angle (2θ1/2)	Brightness Rank	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
		Brightness (mcd) / Resin Color	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
φ5 Circular type	20°	Transparent Colorless					※SLA-570MT										

※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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