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ROHM SEMICONDUCTOR

Data Sheet



SLI-343 Series

Features

- **Viewing angle 2θ 1/2 : 40˚**
- High brightness
- Competent to direct mount

Color Type: U D Y M

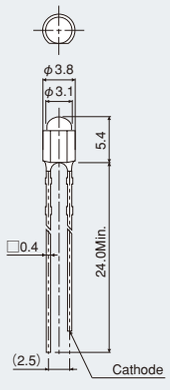
Specifications

Viewing angle 2θ 1/2 / 40°: High luminous intensity

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)	IR VR(V)	Dominant Wavelength λD Typ.(nm)	λD IF(mA)	Luminous Intensity Iv Min.(mcd)	Iv Typ.(mcd)	Iv IF(mA)
■ SLI-343URC	AlGaInP on GaAs	Red	125	50	200*	9	-25 to +85	-30 to +100	1.9	20	100	9	620	20	90	450	20
■ SLI-343DC		Orange											605			500	
■ SLI-343YC		Yellow											587			350	
■ SLI-343MC		Yellowish Green	62	25	100*		-25 to +80		2.1				572		56	200	
■ SLI-343UR		Red											620			350	
■ SLI-343DU		Orange	125	50	200*		-25 to +85		1.9				605		90		
■ SLI-343YY		Yellow											587			300	
■ SLI-343MG		Yellowish Green	62	25	100*		-25 to +80		2.1				572		56	180	

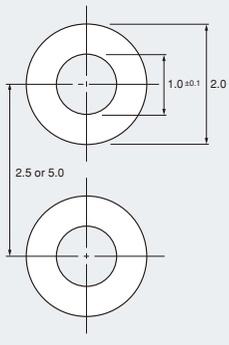
*:Duty1/10, 1kHz

Dimensions



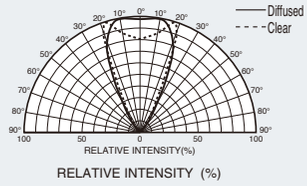
Tolerance : ±0.2
(unit : mm)

Recommended Solder Pattern



(unit : mm)

Viewing Angle



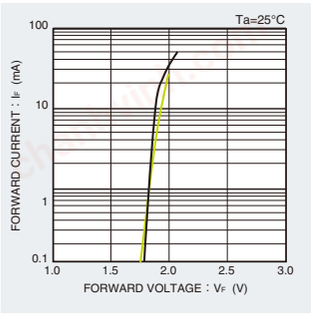
RELATIVE INTENSITY (%)

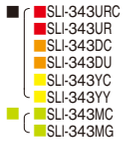
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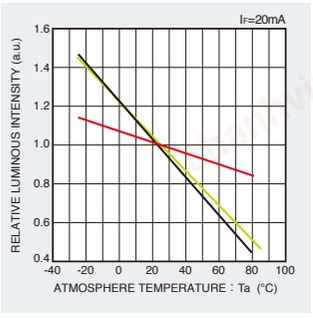
Electrical Characteristics Curves

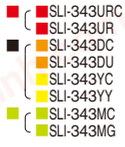
Forward Current-Forward Voltage



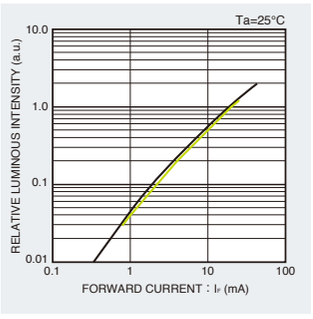


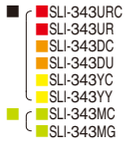
Luminous Intensity-Atmosphere Temperature



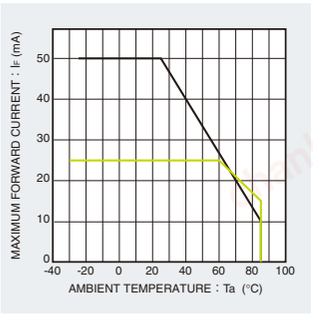


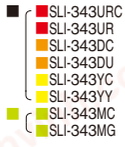
Luminous Intensity-Forward Current





Derating





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SLI-343 Series

Rank Reference of Brightness

Red (U)

(Ta=25°C, IF=20mA)

	Viewing angle (2θ1/2)	Brightness Rank / Brightness (mcd) / Resin Color	E 0.40 to 0.63	F 0.63 to 1.0	G 1.0 to 1.6	H 1.6 to 2.5	J 2.5 to 4.0	K 4.0 to 6.3	L 6.3 to 10	M 10 to 16	N 16 to 25	P 25 to 40	Q 40 to 63	R 63 to 100	S 100 to 160	T 160 to 250	U 250 to 400	V 400 to 630
φ3 Circular type	40°	Transparent Colored													※SLI-343URC			
		Diffused Colored													※SLI-343UR			

Orange (D)

(Ta=25°C, IF=20mA)

	Viewing angle (2θ1/2)	Brightness Rank / Brightness (mcd) / Resin Color	E 0.40 to 0.63	F 0.63 to 1.0	G 1.0 to 1.6	H 1.6 to 2.5	J 2.5 to 4.0	K 4.0 to 6.3	L 6.3 to 10	M 10 to 16	N 16 to 25	P 25 to 40	Q 40 to 63	R 63 to 100	S 100 to 160	T 160 to 250	U 250 to 400	V 400 to 630
φ3 Circular type	40°	Transparent Colored													※SLI-343DC			
		Diffused Colored													※SLI-343DU			

Yellow (Y)

(Ta=25°C, IF=20mA)

	Viewing angle (2θ1/2)	Brightness Rank / Brightness (mcd) / Resin Color	E 0.40 to 0.63	F 0.63 to 1.0	G 1.0 to 1.6	H 1.6 to 2.5	J 2.5 to 4.0	K 4.0 to 6.3	L 6.3 to 10	M 10 to 16	N 16 to 25	P 25 to 40	Q 40 to 63	R 63 to 100	S 100 to 160	T 160 to 250	U 250 to 400	V 400 to 630
φ3 Circular type	40°	Transparent Colored													※SLI-343YC			
		Diffused Colored													※SLI-343YY			

Green (M)

(Ta=25°C, IF=20mA)

	Viewing angle (2θ1/2)	Brightness Rank / Brightness (mcd) / Resin Color	E 0.40 to 0.63	F 0.63 to 1.0	G 1.0 to 1.6	H 1.6 to 2.5	J 2.5 to 4.0	K 4.0 to 6.3	L 6.3 to 10	M 10 to 16	N 16 to 25	P 25 to 40	Q 40 to 63	R 63 to 100	S 100 to 160	T 160 to 250	U 250 to 400	V 400 to 630
φ3 Circular type	40°	Transparent Colored												※SLI-343MC				
		Diffused Colored												※SLI-343MG				

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

Part No. Construction

Rank sign (Brightness Rank)※

S	L	I	–	3	4	3	Y	C	T	3	2	S

Series name / Package type / Emitting Color / Resin Color / Termination shape and taping specifications

Emitting Color	
U	Red:620nm
D	Orange:605nm
Y	Yellow:587(590)nm
M	Yellowish-Green:572(563)nm

Resin Color	
R	<Red> Diffused Colored
U	<Orange> Diffused Colored
Y	<Yellow> Diffused Colored
G	<Green> Diffused Colored
C	Transparent Colored

Termination shape and taping specifications	
3F	1-Element straight bulk
T□□	See taping specifications

※ 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.

Packing Specification

ROHM LED products are being shipped with desiccant (silica gel) concluded in moisture-proof bags.
Pasting the moisture sensitive label on the outer surface of the moisture-proof bags or enclosing the humidity indication card inside the bag is available upon request.
Please contact the nearest sales office or distributer if necessary.

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ROHM SEMICONDUCTOR

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