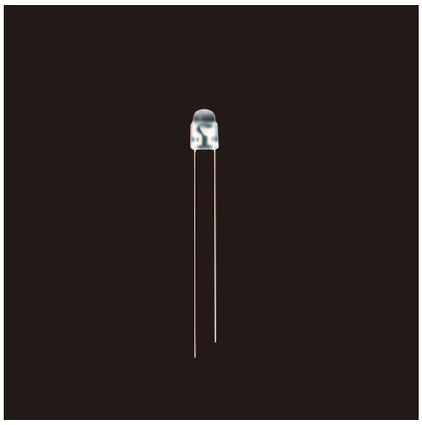
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ROHM SEMICONDUCTOR

Data Sheet



SLI-343 □ 8 Series

EXCELED™

Features

- **Viewing angle 2θ 1/2 : 40°**
- High brightness
- Low current consumption
- Competent to direct mount

Color Type: V U D Y M P

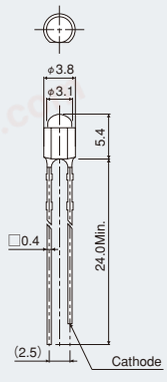
Specifications

Viewing angle 2θ 1/2 / 40°: EXCELED™

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)	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-343V8RC	AlGaInP on GaAs	Red	54	20	100*	9	-30 to +85	-40 to +100	2.2	20	10	9	630	20	150	330	20
SLI-343U8RC													620				
SLI-343D8C		Orange											605		330	680	
SLI-343Y8C		Yellow											590				
SLI-343M8C		Yellowish Green											572		68	150	
SLI-343P8C		Green											560		10	22	
SLI-343V8R		Red											630		100	220	
SLI-343U8R													620				
SLI-343D8U		Orange											605		220	470	
SLI-343Y8Y		Yellow											590				
SLI-343M8G		Yellowish Green											572		68	150	
SLI-343P8G		Green											560		10	22	

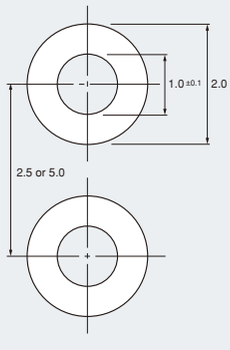
*:Duty1/10, 1kHz

Dimensions



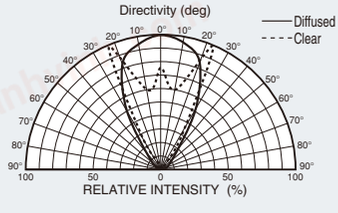
Tolerance : ±0.2
(unit : mm)

Recommended Solder Pattern



(unit : mm)

Viewing Angle



*EXCELED™ is ROHM's pending trademark.

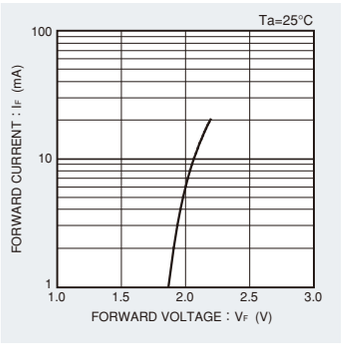
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SLI-343 □ 8 Series

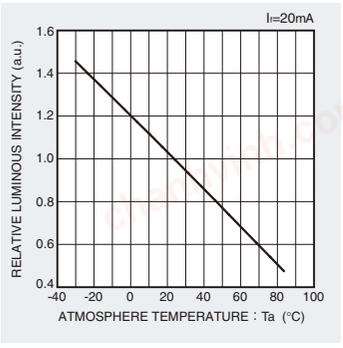
Electrical Characteristics Curves

Forward Current-Forward Voltage



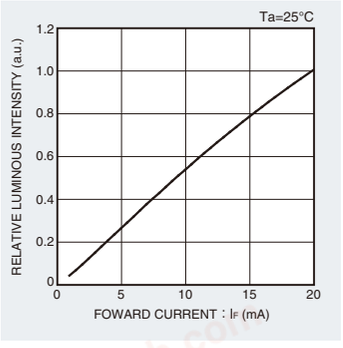


Luminous Intensity-Atmosphere Temperature



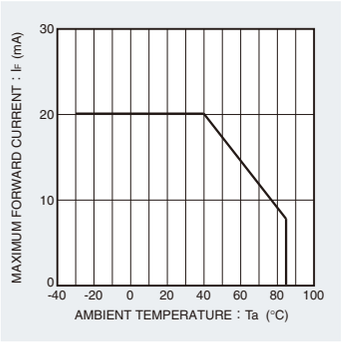


Luminous Intensity-Forward Current





Derating





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SLI-343 □ 8 Series

Rank Reference of Brightness

Red (V, U)

(Ta=25°C, IF=20mA)

	Viewing angle (2θ1/2)	High Brightness Rank / Brightness (mcd) / Resin Color	XA 10 to 15	XB 15 to 22	XC 22 to 33	XD 33 to 47	XE 47 to 68	XF 68 to 100	XG 100 to 150	XH 150 to 220	XJ 220 to 330	XK 330 to 470	XL 470 to 680	XM 680 to 1000	XN 1000 to 1500	XP 1500 to 2200	XQ 2200 to 3300	XR 3300 to 4700	XS 4700 to 6800	XT 6800 to 10000	XU 10000 to 15000
φ3 Circular type	40°	Transparent Colored								SLI-343U8RC											
										SLI-343V8RC											
		Diffused Colored							SLI-343U8R												
									SLI-343V8R												

Orange (D)

(Ta=25°C, IF=20mA)

	Viewing angle (2θ1/2)	High Brightness Rank / Brightness (mcd) / Resin Color	XA 10 to 15	XB 15 to 22	XC 22 to 33	XD 33 to 47	XE 47 to 68	XF 68 to 100	XG 100 to 150	XH 150 to 220	XJ 220 to 330	XK 330 to 470	XL 470 to 680	XM 680 to 1000	XN 1000 to 1500	XP 1500 to 2200	XQ 2200 to 3300	XR 3300 to 4700	XS 4700 to 6800	XT 6800 to 10000	XU 10000 to 15000
φ3 Circular type	40°	Transparent Colored										SLI-343D8C									
		Diffused Colored									SLI-343D8U										

Yellow (Y)

(Ta=25°C, IF=20mA)

	Viewing angle (2θ1/2)	High Brightness Rank / Brightness (mcd) / Resin Color	XA 10 to 15	XB 15 to 22	XC 22 to 33	XD 33 to 47	XE 47 to 68	XF 68 to 100	XG 100 to 150	XH 150 to 220	XJ 220 to 330	XK 330 to 470	XL 470 to 680	XM 680 to 1000	XN 1000 to 1500	XP 1500 to 2200	XQ 2200 to 3300	XR 3300 to 4700	XS 4700 to 6800	XT 6800 to 10000	XU 10000 to 15000
φ3 Circular type	40°	Transparent Colored										SLI-343Y8C									
		Diffused Colored									SLI-343Y8Y										

Green (M, P)

(Ta=25°C, IF=20mA)

	Viewing angle (2θ1/2)	High Brightness Rank / Brightness (mcd) / Resin Color	XA 10 to 15	XB 15 to 22	XC 22 to 33	XD 33 to 47	XE 47 to 68	XF 68 to 100	XG 100 to 150	XH 150 to 220	XJ 220 to 330	XK 330 to 470	XL 470 to 680	XM 680 to 1000	XN 1000 to 1500	XP 1500 to 2200	XQ 2200 to 3300	XR 3300 to 4700	XS 4700 to 6800	XT 6800 to 10000	XU 10000 to 15000
φ3 Circular type	40°	Transparent Colored						SLI-343M8C													
			SLI-343P8C																		
		Diffused Colored						SLI-343M8G													
			SLI-343P8G																		

Part No. Construction

Special Code will be applied for LED device.

Rank sign (Brightness Rank)*

S L I – 3 4 3 V 8 R T 3 1 P

Series name | Shape | Emitting Color | Resin Color | Termination shape and taping specifications

SLI	1-Element Circular Type Low Current High Brightness LED Lamps

V	Red:630nm
U	Red:620nm
D	Orange:605nm
Y	Yellow:587(590)nm
M	Yellowish-Green:572(563)nm
P	Green:560nm

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

3F	1-Element straight bulk
F	2-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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