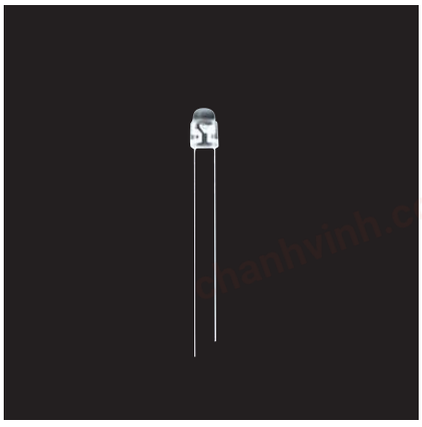
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ROHM SEMICONDUCTOR

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

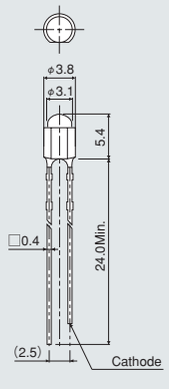
Specifications

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)	Forward Voltage VF IF(mA)	Reverse Current IR Max.(μA)	Reverse Current IR VR(V)	Dominant Wavelength λD Typ.(nm)	Dominant Wavelength IF(mA)	Luminous Intensity Iv Min.(mcd)	Luminous Intensity Iv Typ.(mcd)	Luminous Intensity 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	

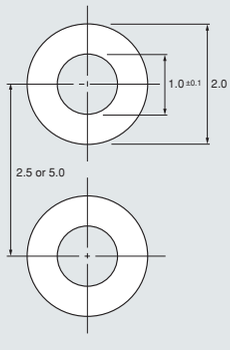
*:Duty1/10, 1kHz

Dimensions



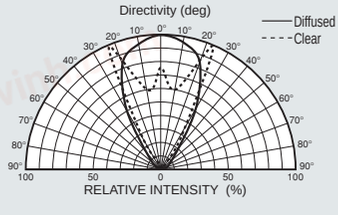
Tolerance : ±0.2
(unit : mm)

Recommended Solder Pattern



(unit : mm)

Viewing Angle



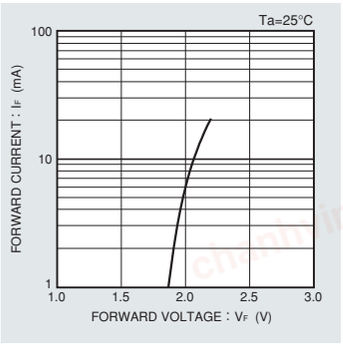
*EXCELED™ is ROHM's pending trademark.

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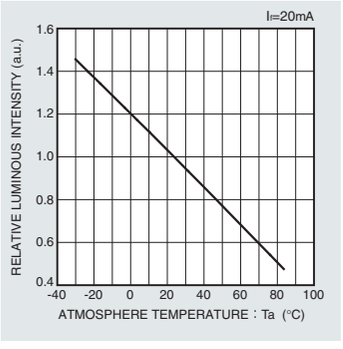
Electrical Characteristics Curves

Forward Current-Forward Voltage



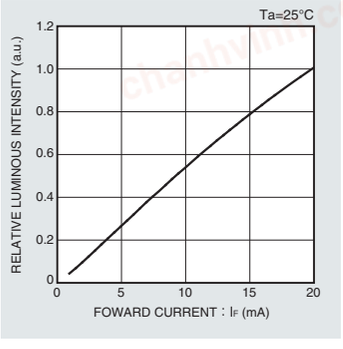


Luminous Intensity-Atmosphere Temperature



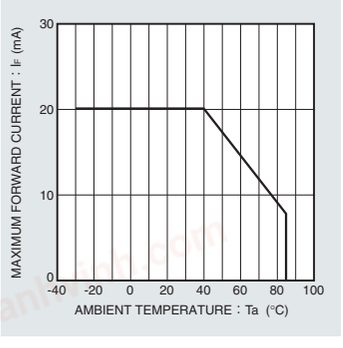


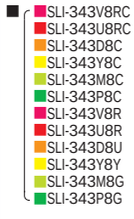
Luminous Intensity-Forward Current





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	XB	XC	XD	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
			10 to 15	15 to 22	22 to 33	33 to 47	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
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	XB	XC	XD	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
			10 to 15	15 to 22	22 to 33	33 to 47	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
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	XB	XC	XD	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
			10 to 15	15 to 22	22 to 33	33 to 47	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
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	XB	XC	XD	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU
			10 to 15	15 to 22	22 to 33	33 to 47	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
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.

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