

High Brightness Type $\phi 3.1$ Circular Type LED Lamps (LEDs with Pressure Release Structure)

SLR343 Series Pressure Release

Shape	Emitting Surface Dimension (mm)	Blue			Green		
		InGaN on SiC					
		468nm			523nm	518nm	
Circular Type	ϕ 3.1						
		SLR343BBT	SLR343BCT	SLR343BDT	SLR343EBT	SLR343ECT	SLR343EDT

Note) "-" will be taken out for emitting color B/E series.

Absolute Maximum Ratings (Ta=25°C)

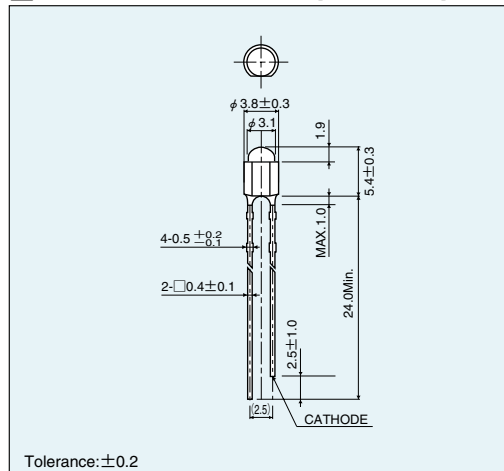
Part No.	Emitting color	Power dissipation Pd (mW)	Forward current IF (mA)	Peak forward current * IFP (mA)	Reverse voltage VR (V)	Operating temperature Topr (°C)	Storage temperature Tstg (°C)
SLR343BBT	Blue	120	30	100	5	-20 to +80	-30 to +100
SLR343BCT							
SLR343BDT							
SLR343EBT	Green	120	30	100	5	-20 to +80	-30 to +100
SLR343ECT							
SLR343EDT							

* IFP measured under duty $\leq 1/10$, 1kHz

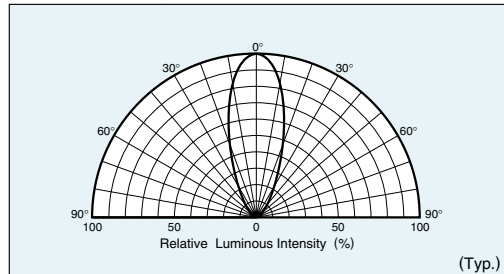
Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage VF		Reverse current IR		Light wavelength		Brightness Iv		
		Typ. (V)	IF (mA)	Max. (μ A)	VR (V)	Peak λ_p (nm)	Half-wave $\Delta\lambda$ (nm)	IF (mA)	Min. (mcd)	Typ. (mcd)
SLR343BBT	Transparent Clear	3.5	20	100	5	468	26	20	90	350
SLR343BCT									200	600
SLR343BDT									300	800
SLR343EBT		3.8	20	100	5	523	36	20	420	1500
SLR343ECT						518	35		610	2000
SLR343EDT									900	3500

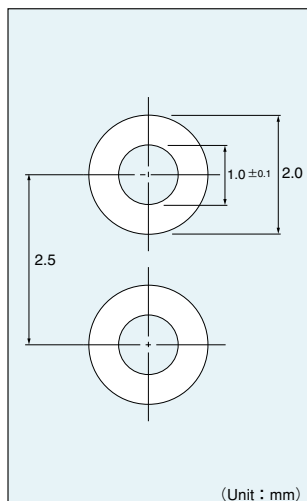
External Dimensions (Unit : mm)



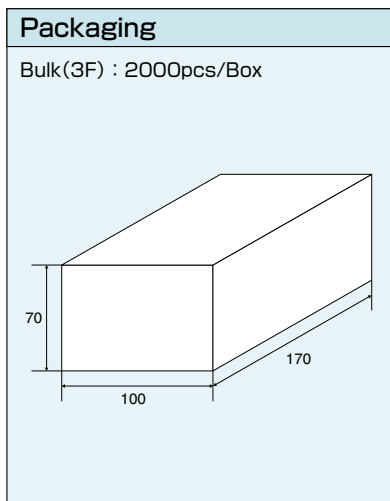
Directivity



Recommended Pad Layout

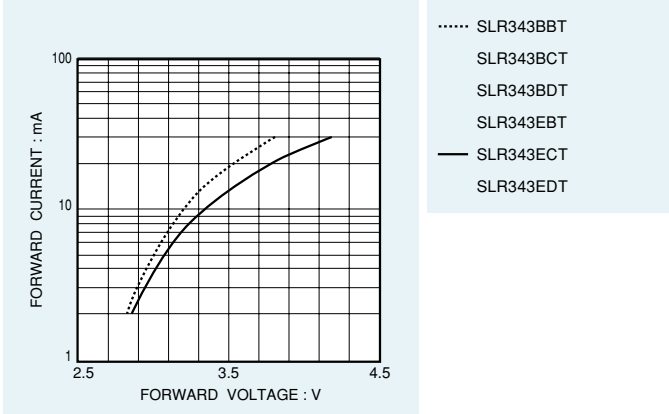


Packaging Specifications (Unit : mm)

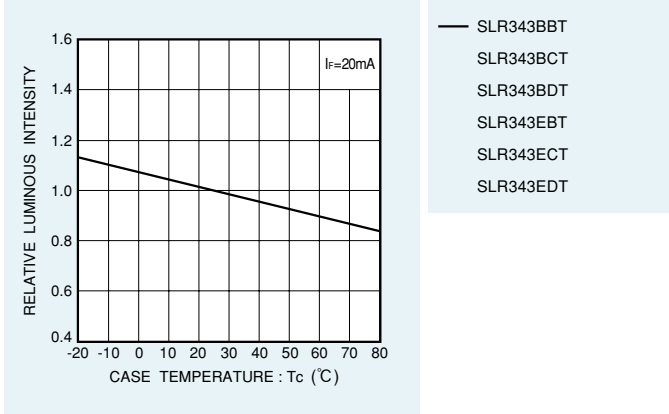


Electrical Characteristic Curves

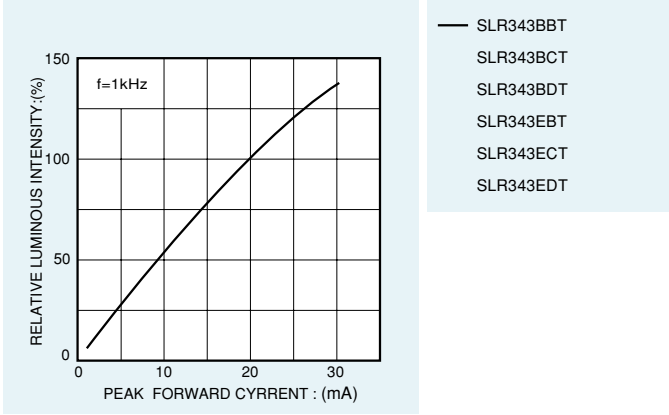
Forward Current - Forward Voltage



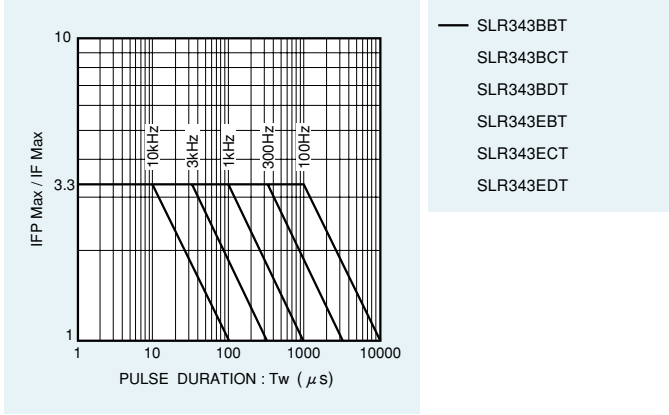
Relative Luminous Intensity - Case Temperature



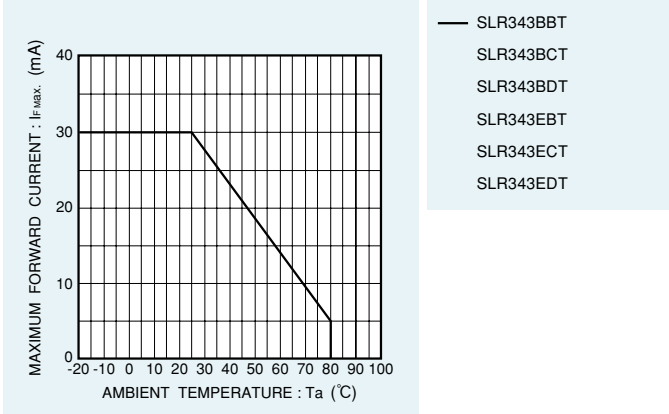
Relative Luminous Intensity - Forward Current



Ratio of Maximum Tolerable Peak Current - Pulse Duration



Derating



Notes

- No technical content pages of this document may be reproduced in any form or transmitted by any means without prior permission of ROHM CO.,LTD.
- The contents described herein are subject to change without notice. The specifications for the product described in this document are for reference only. Upon actual use, therefore, please request that specifications to be separately delivered.
- Application circuit diagrams and circuit constants contained herein are shown as examples of standard use and operation. Please pay careful attention to the peripheral conditions when designing circuits and deciding upon circuit constants in the set.
- Any data, including, but not limited to application circuit diagrams information, described herein are intended only as illustrations of such devices and not as the specifications for such devices. ROHM CO.,LTD. disclaims any warranty that any use of such devices shall be free from infringement of any third party's intellectual property rights or other proprietary rights, and further, assumes no liability of whatsoever nature in the event of any such infringement, or arising from or connected with or related to the use of such devices.
- Upon the sale of any such devices, other than for buyer's right to use such devices itself, resell or otherwise dispose of the same, no express or implied right or license to practice or commercially exploit any intellectual property rights or other proprietary rights owned or controlled by
- ROHM CO., LTD. is granted to any such buyer.
- Products listed in this document are no antiradiation design.

The products listed in this document are designed to be used with ordinary electronic equipment or devices (such as audio visual equipment, office-automation equipment, communications devices, electrical appliances and electronic toys).

Should you intend to use these products with equipment or devices which require an extremely high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), please be sure to consult with our sales representative in advance.

About Export Control Order in Japan

Products described herein are the objects of controlled goods in Annex 1 (Item 16) of Export Trade Control Order in Japan.

In case of export from Japan, please confirm if it applies to "objective" criteria or an "informed" (by MITI clause) on the basis of "catch all controls for Non-Proliferation of Weapons of Mass Destruction.