

**Series L3 / Ø 3mm**

**Colour: blue**

**Sloan Part No.: L3-B71G-WWW**

**Electrical and Optical Characteristics (T<sub>A</sub> = 25°C)**

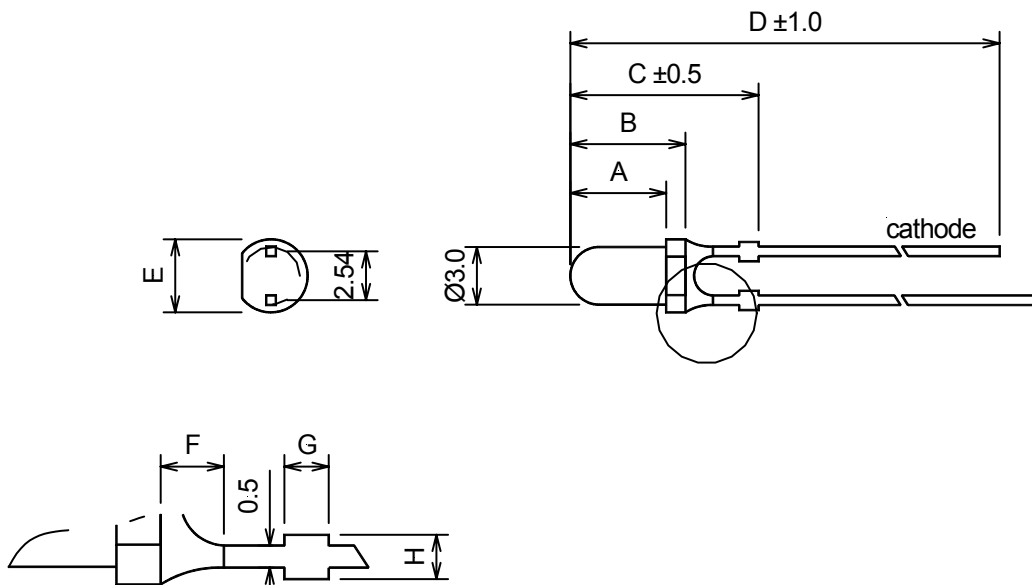
Chip			Lens	Absolute Maximum Ratings				Electro-Optical-Data's at 20mA					Viewing Angle 2 θ ½ (deg)
Emitted Colour	Peak Wavelength λ <sub>p</sub> (nm)	Dominant Wavelength λ <sub>d</sub> (nm)		Δλ (nm)	P <sub>d</sub> (mW)	I <sub>f</sub> (mA)	Peak I <sub>f</sub> (mA)	Forward Voltage V <sub>F</sub> (V)		Luminous Intensity I <sub>v</sub> (mcd)			
								typ.	max.	min.	typ.	max.	
blue	470	470	water clear	-	123	35	110*	3.2	3.5	4400	6220	8750	15°

\*Peak Forward Current (1/10 Duty Cycle, 10ms Pulse Width)

**Absolute Maximum Ratings (T<sub>A</sub> = 25°C)**

Reverse Voltage	5V
Reverse Current (V <sub>R</sub> = 5V)	≤50μA
Operating Temperature Range	- 30°C ~ +85°C
Storage Temperature Range	- 40°C ~ +100°C
Lead Soldering Temperature (3mm below the body)	350°C for 3 seconds

**Package Dimensions**



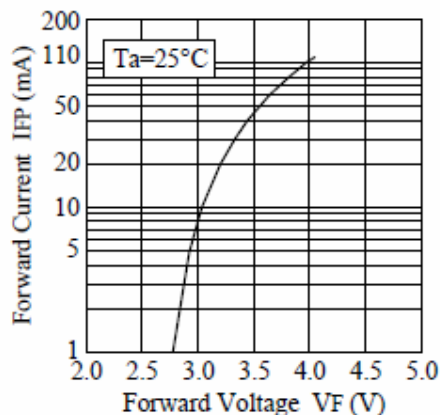
1. All dimensions are in millimetres.
2. Tolerance is ±0.25mm unless otherwise specified.
3. Lead spacing is measured where the leads emerge from the package
4. Specifications are subject to change without notice.

Measurements of Drawing								
	A	B	C	D	E	F	G	H
mm	5.0	6.0	11.0	27.5	3.8	1.5	1.0	0.75

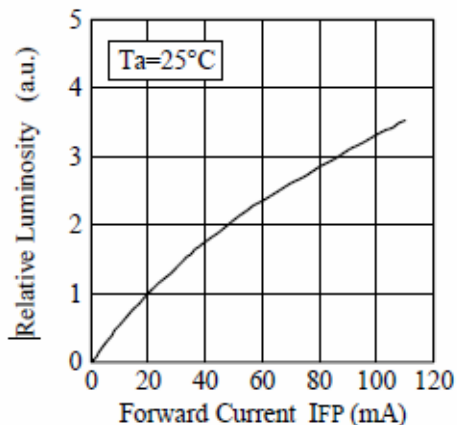
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Electrical and Optical Characteristics ( $T_A = 25^\circ\text{C}$ )

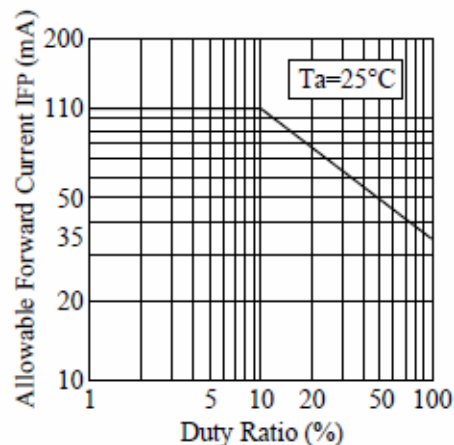
■ Forward Voltage vs. Forward Current



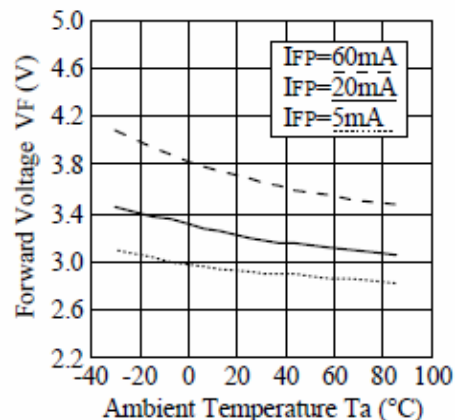
■ Forward Current vs. Relative Luminosity



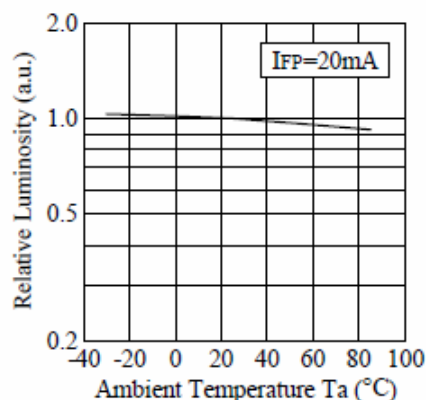
■ Duty Ratio vs. Allowable Forward Current



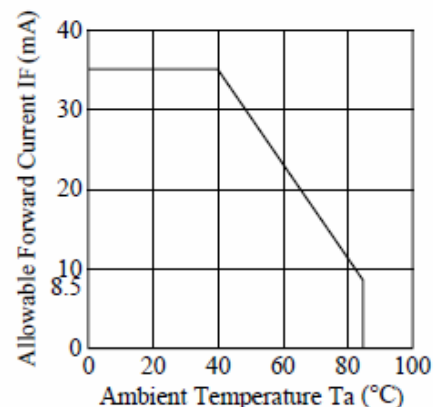
■ Ambient Temperature vs. Forward Voltage



■ Ambient Temperature vs. Relative Luminosity



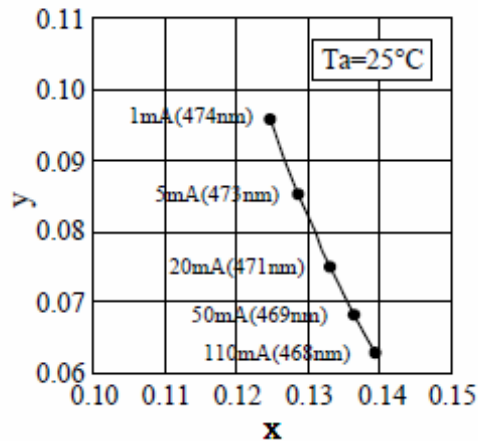
■ Ambient Temperature vs. Allowable Forward Current



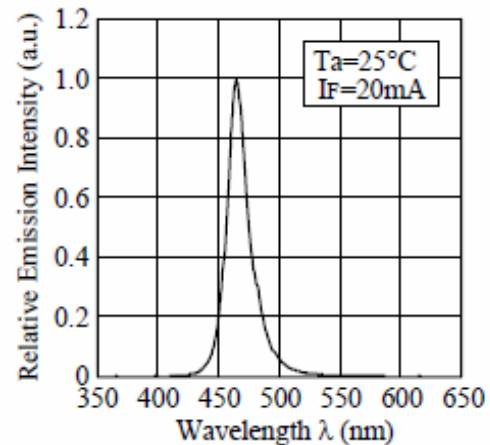
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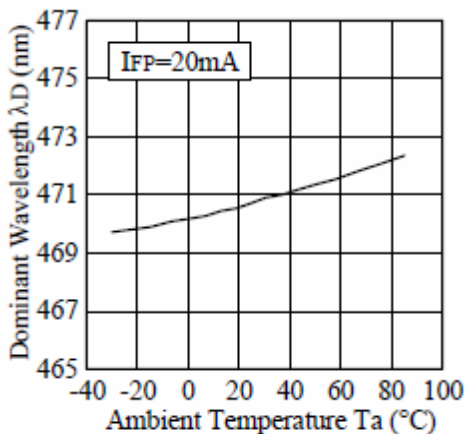
■ Forward Current vs. Chromaticity Coordinate ( $\lambda, D$ )



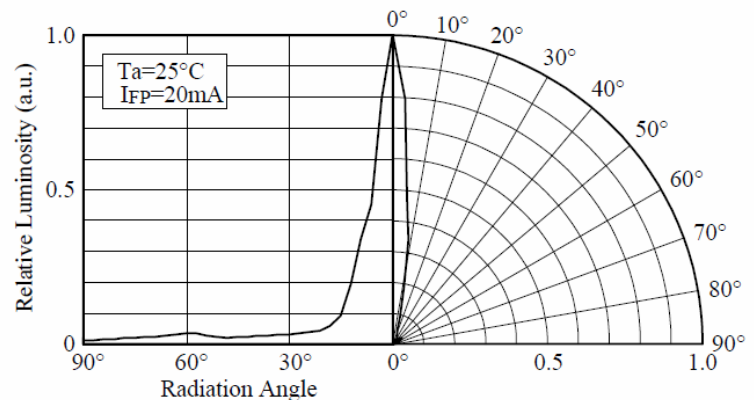
■ Spectrum



■ Ambient Temperature vs. Dominant Wavelength



■ Directivity



**Soldering:**

Dip Soldering		Soldering	
Pre-Heat	120°C Max.	Temperature	350°C Max.
Pre-Heat Time	60 seconds Max.	Soldering Time	3 seconds Max.
Solder Bath	260°C Max.	Position	No closer than 3 mm from the base of the epoxy bulb.
Temperature			
Dipping Time	10 seconds Max.		
Dipping Position	No lower than 3 mm from the base of the epoxy bulb.		