Series L3 / Ø 3mm

Colour: white

Sloan Part No.: L3-W37N-BVW

SLOAN AG
Birmannsgasse 8
CH-4009 Basel
Tel. ++41 61 264 10 60
Fax. ++41 61 264 10 75
info@sloan-basel.com

Electrical and Optical Characteristics (T_A = 25° C)

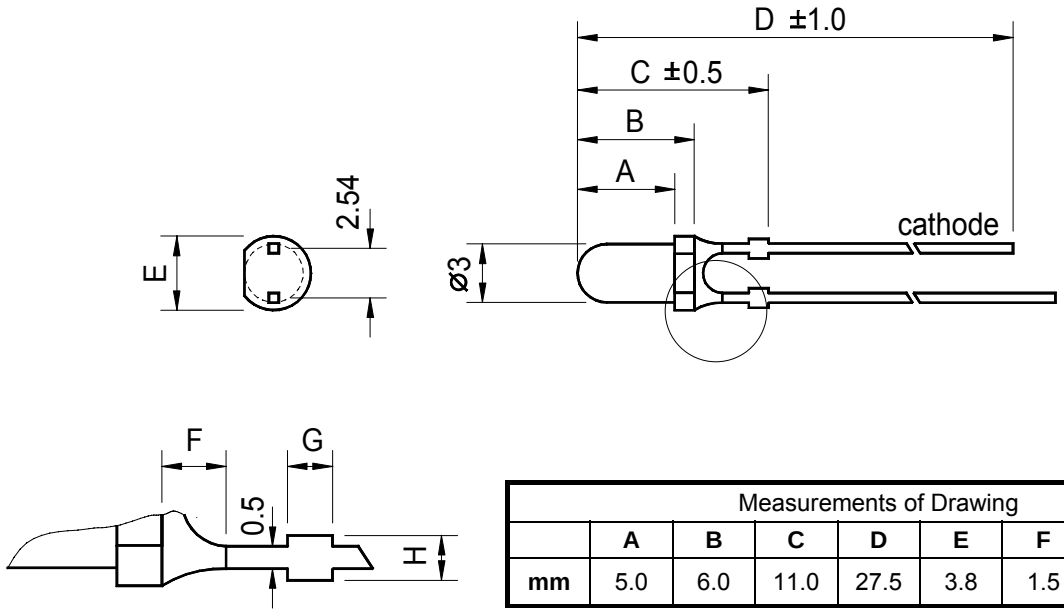
Chip			Lens	Absolute Maximum Rating				Electro-Optical-Data's **at 20mA**					Viewing Angle
Emitted Colour	Chromaticity Coordinates	Colour Temperature (°K)		Δλ (nm)	Pd (mW)	If (mA)	Peak If (mA)	Forward Voltage Vf (V)		Luminous Intensity Iv (mcd)			2 θ ½ (deg)
								typ.	max	min.	typ	max.	
white	x=0.31 y=0.32	5500-9000	water clear	-	105	30	100	3.2	3.5	9480	13350	18960	20°

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

Absolute Maximum Ratings (T_A = 25° C)

Reverse Voltage	5V
Reverse Current (V_R = 5V)	≤50µA
Operating Temperature Range	- 30°C ~ +85°C
Storage Temperature Range	- 40°C ~ +100°C
Lead Soldering Temperature (3mm below the body)	265°C for 10 seconds

Package Dimensions



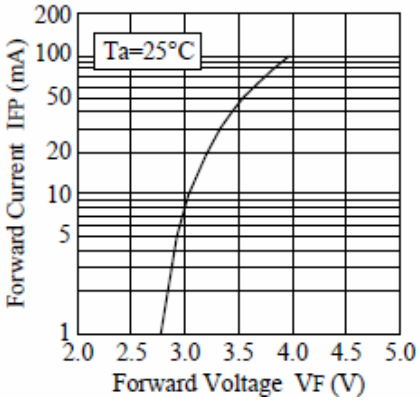
Measurements of Drawing								
	A	**B**	**C**	**D**	**E**	**F**	**G**	**H**
mm	5.0	6.0	11.0	27.5	3.8	1.5	1.0	1.1

1. All dimensions are in millimeters.
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.

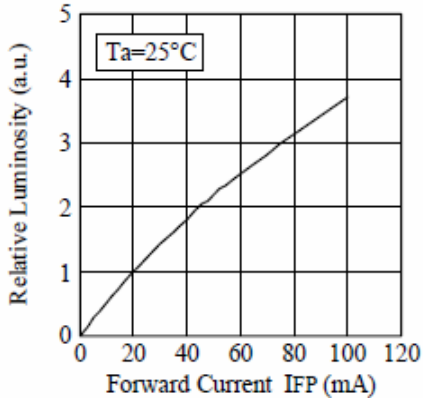
Electrical and Optical Characteristics (T_A = 25° C)

SLOAN AG
Birmannsgasse 8
CH-4009 Basel
Tel. ++41 61 264 10 60
Fax. ++41 61 264 10 75
info@sloan-basel.com

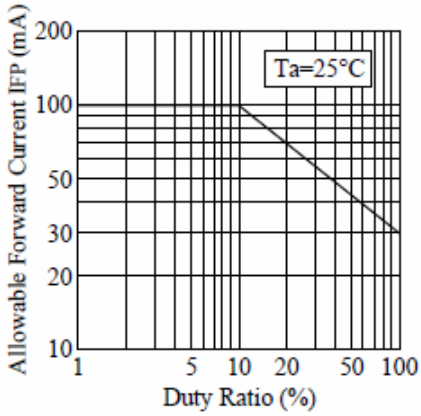
■ Forward Voltage vs. Forward Current



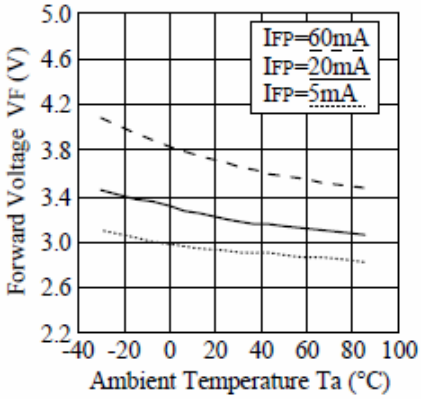
■ Forward Current vs. Relative Luminosity



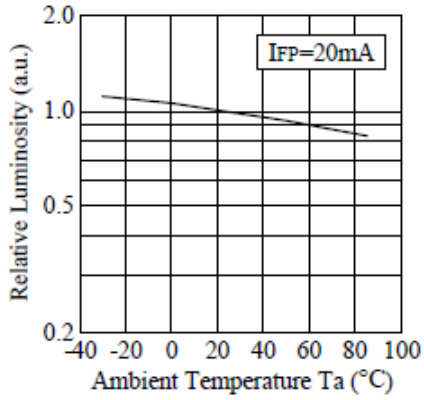
■ Duty Ratio vs. Allowable Forward Current



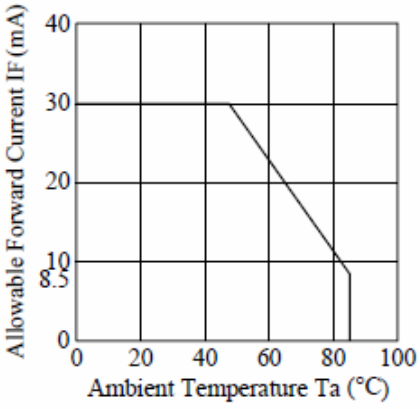
■ Ambient Temperature vs. Forward Voltage



■ Ambient Temperature vs. Relative Luminosity



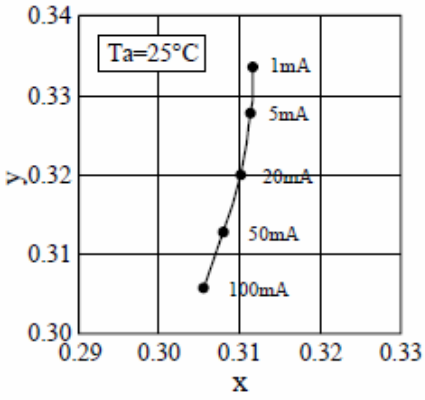
■ Ambient Temperature vs. Allowable Forward Current



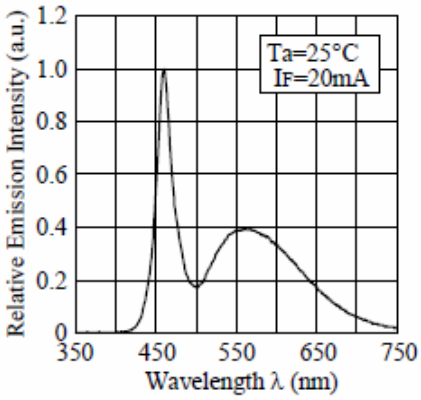
Electrical and Optical Characteristics (T_A = 25° C)

SLOAN AG
Birmannsgasse 8
CH-4009 Basel
Tel. ++41 61 264 10 60
Fax. ++41 61 264 10 75
info@sloan-basel.com

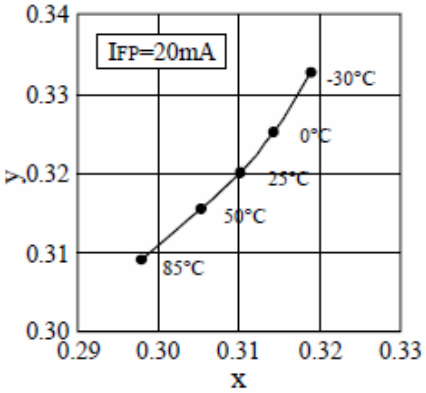
■ Forward Current vs. Chromaticity Coordinate



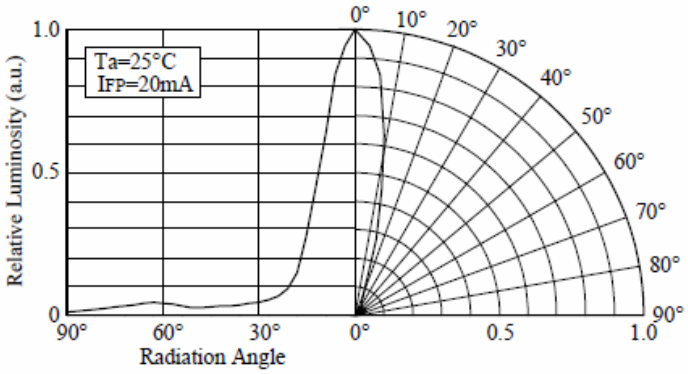
■ Spectrum



■ Ambient Temperature vs. Chromaticity Coordinate



■ 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 Temperature	260°C Max.	Position	No closer than 3 mm from the base of the epoxy bulb.
Dipping Time	10 seconds Max.		
Dipping Position	No lower than 3 mm from the base of the epoxy bulb.		