

All dimensions are in mm.

Tolerance is ± 0.25 mm unless otherwise noted.

## AND820HW

## Standard LED

# T-1 Package (5 mm)

The white bright lamp is made with InGaN chip and water clear epoxy resin.

#### **Features**

- Low power consumption
- Popular T-1 diameter package
- · General purpose leads
- · Reliable and rugged
- · Long life solid state reliability
- · Available on tape and reel
- RoHS compliant

### Maximum Ratings (Ta - 25 °C)

LED Chip			
Material	Emitting Color	Lens Color	
InGaN	White	Water clear	

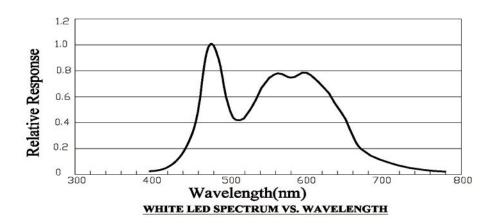
## Absolute Maximum Ratings (Ta - 25 °C)

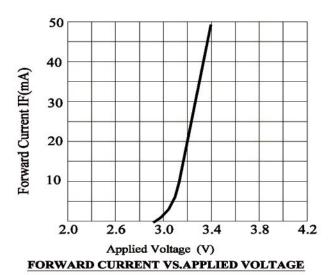
Item	Symbol	Rating	Unit
Power Dissipation	Po	120	mW
DC Forward Current	lF	30	mA
Reverse Voltage	Vr	5	V
Reverse (Leakage) Current	lR	50	μΑ
Peak Current (1/10 Duty Cycle, 0.2 ms Pulse Width)	I <sub>F</sub> (Peak)	100	mA
Operating Temperature Range	T OPR	-25 to +85	°C
Storage Temperature Range	T stg	-40 to +100	V
Solder Temperature (1.6 mm from body)	T sol	Dip Soldering: 260°C for 5 seconds Dip Soldering: 350°C for 3 seconds	
Electronic Discharge	ESD.	6000	V

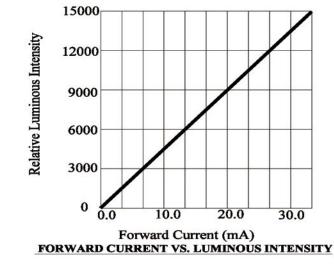
## Electrical/Optical Characteristics at Ta=25° C

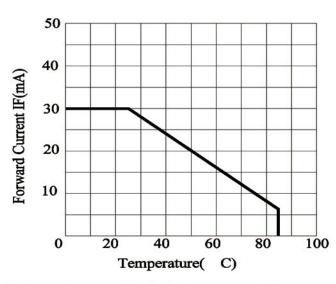
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Item	Symbol	Test Condition	Minimum	Typical	Maxiumum	Unit		
Luminous Intensity	lv	I₅ = 20 mA	4800	9000	-	mcd		
Forward Voltage	VF	I <sub>F</sub> = 20 mA	_	3.2	4.0	V		
CIE Chromaticity Coordinates: X Axis	Х	I⊧ = 20 mA	-	0.31	-	_		
CIE Chromaticity Coordinates: X Axis	Y	I <sub>F</sub> = 20 mA	-	0.30	-	_		
Reverse (Leakage) Current	IR	V <sub>R</sub> = 5 V			50	μΑ		
Viewing Angle	2 θ 1/2	I <sub>F</sub> = 20 mA		-	20	deg		

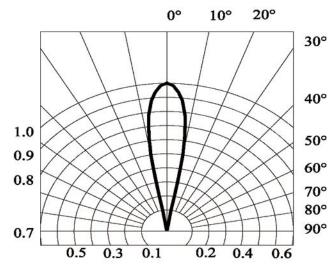
Product specifications contained herein may be changed without prior notice. It is therefore advisable to contact Purdy Electronics before proceeding with the design of equipment incorporating this product.











FORWARD CURRENT VS. AMBIENT TEMPERATURE

RADIATION DIAGRAM