



All dimensions are in mm.  
Tolerance is  $\pm 0.25$  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		Lens Color
Material	Emitting Color	
InGaN	White	Water clear

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

Item	Symbol	Rating	Unit
Power Dissipation	P <sub>D</sub>	120	mW
DC Forward Current	I <sub>F</sub>	30	mA
Reverse Voltage	V <sub>R</sub>	5	V
Reverse (Leakage) Current	I <sub>R</sub>	50	μA
Peak Current (1/10 Duty Cycle, 0.2 ms Pulse Width)	I <sub>F</sub> (Peak)	100	mA
Operating Temperature Range	T <sub>OPR</sub>	-25 to +85	°C
Storage Temperature Range	T <sub>STG</sub>	-40 to +100	V
Solder Temperature (1.6 mm from body)	T <sub>SOL</sub>	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

Item	Symbol	Test Condition	Minimum	Typical	Maximum	Unit
Luminous Intensity	I <sub>v</sub>	I <sub>F</sub> = 20 mA	4800	9000	-	mcd
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 20 mA	-	3.2	4.0	V
CIE Chromaticity Coordinates: X Axis	X	I <sub>F</sub> = 20 mA	-	0.31	-	-
CIE Chromaticity Coordinates: Y Axis	Y	I <sub>F</sub> = 20 mA	-	0.30	-	-
Reverse (Leakage) Current	I <sub>R</sub>	V <sub>R</sub> = 5 V	--	-	50	μA
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.

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