



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		Lens Color
Material	Emitting Color	
InGaN	White	Water clear

Absolute Maximum Ratings (Ta - 25 °C)

Item	Symbol	Rating	Unit
Power Dissipation	P _D	120	mW
DC Forward Current	I _F	30	mA
Reverse Voltage	V _R	5	V
Reverse (Leakage) Current	I _R	50	μA
Peak Current (1/10 Duty Cycle, 0.2 ms Pulse Width)	I _F (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

Item	Symbol	Test Condition	Minimum	Typical	Maximum	Unit
Luminous Intensity	I _v	I _F = 20 mA	4800	9000	—	mcd
Forward Voltage	V _F	I _F = 20 mA	—	3.2	4.0	V
CIE Chromaticity Coordinates: X Axis	X	I _F = 20 mA	—	0.31	—	—
CIE Chromaticity Coordinates: Y Axis	Y	I _F = 20 mA	—	0.30	—	—
Reverse (Leakage) Current	I _R	V _R = 5 V	—	—	50	μA
Viewing Angle	2 θ 1/2	I _F = 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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