



①Anode②Cathode

Notes:

All dimensions are in millimeters, tolerance is 0.25 mm except being specified. Lead spacing is measured where the lead emerges from the package. Protruded resin under flange is 1.5 mm Max LED

AND420HWC InGaN Super White Blue Light Emission

T-1 3/4 Package (5 mm)

Features

- Popular T-1 3/4 round package
- · High luminous power
- Typical chromaticity coordinates x=0.30, y=0.29 according to CIE 1931
- Bulk, available tape and reel
- ESD-withstand voltage: up to 4KV
- RoHS compliant

This series is designed for applications requiring high luminous intensity. The phosphor filled in the reflector converts the blue emission on InGaN to ideal white.

Applications: Message panels, optical indicators, backlighting, marker lights

Absolute Maximum Ratings (Ta - 25 °C)

Item	Symbol	Rating	Unit
Continuous Forward Current	lF	30	mA
Peak Forward Current (Duty 1/10@ 1KHz)	I FP	100	mA
Operating Temperature Range	T opr	-40 to 85	°C
Storage Temperature Range	T stg	-40 to 100	°C
Electrostatic Discharge	ESD	4K	V
Soldering Temperature (T = 5 seconds)	T sol	260	°C
Power Dissipation	Po	110	mW
Reverse Voltage	VR	5	V

Electro-Optical Characteristics

Item	Symbol	Test Condition	Minimum	Typical	Maxiumum	Unit
Forward Voltage	VF	I _F = 20 mA	2.8	-	3.6	V
Reverse Current	IR	V _R = 5 V	-	_	50	μΑ
Luminous Intensity	lv	I⊧ = 20 mA	11250	_	22500	mcd
Chromaticity Coordinated	Х	I⊧ = 20 mA	-	0.30	-	_
	у	I _F = 20 mA	-	0.29	-	-
Viewing Angle	2 θ 1/2	I _F = 20 mA	_	23	_	degree

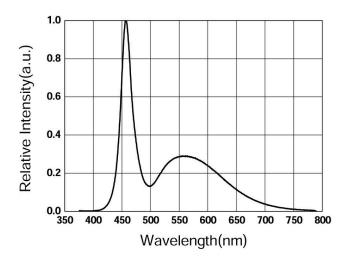
Product specifications contained herein may be changed without prior notice.

It is therefore advisable to contact Purdy Electronics before proceeding with the design of equipment incorporating this product.

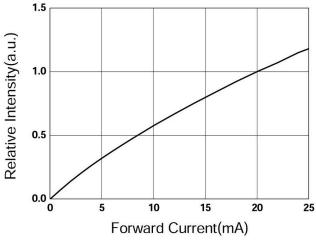


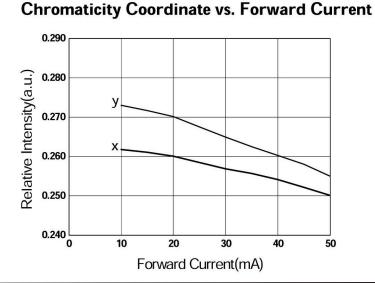
Typical Electro-Optical Characteristics Curves

Relative Intensity vs. Wavelength

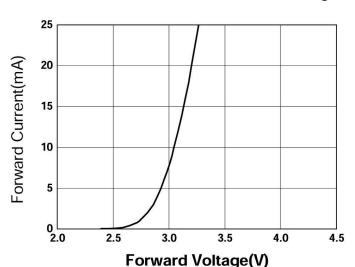


Relative Intensity vs. Forward Current

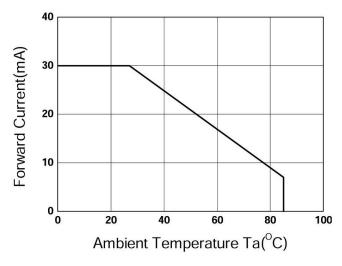




Forward Current vs. Forward Voltage



Forward Current vs. Ambient Temp.



Relative Intensity vs. Angle Displacement

