



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.

AND7WA

InGaN Ultra Bright White Light Low Profile Surface Mount Package

Features

- 0.40 mm height
- Compatible with automatic placement equipment.
- Compatible w/ infrared & vapor phase reflow solder process.
- **RoHS Compliant**

Applications

- Backlighting in auto dashboard & switch.
- Flat backlight for LCD, switch & symbol.
- General use for miniature applications.

Maximum Ratings (T_a = 25°C)

Characteristics	Symbol	Rating	Unit
Forward Current	I _F	25	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	110	mW
Operating Temp. Range	T _{Opr}	-40~ +85	°C
Storage Temp. Range	T _{Stg}	-40~ +90	°C
Soldering Temp. (for 5 seconds)	T _{Sol}	260	°C
Electrostatic Discharge	ESD	150	V
Peak Forward Current (Duty 1/10 @ 1KHz)	I _F	100	mA

Electro-Optical Characteristics (T_a = 25°C)

Characteristics	Symbol	Test Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F = 5 mA	–	2.9	3.15	V
Forward Voltage	V _F	I _F = 20 mA	–	3.4	–	V
Reverse Current	I _R	V _R = 5 V	–	–	50	µA
Luminous Intensity	I _V	I _F = 5 mA	28.5	45	–	mcd
Luminous Intensity	I _V	I _F = 20 mA	–	140	–	mcd
Chromaticity Coordinates	x	I _F = 20 mA	–	0.29	–	–
Chromaticity Coordinates	y	I _F = 20 mA	–	0.30	–	–
Full Viewing Angle	2 θ 1/2	I _F = 20 mA	–	130	–	degree

Precautions:

1. Static electricity and surge can damage the LED. It is recommended to use wrist band or antistatic gloves when handling the LED.
2. Recommended solder condition:

