



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.

# AND4WB

## InGaN Ultra Bright White Light Surface Mount Package

### Features

- Small package size
- 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 ( $T_a = 25^\circ\text{C}$ )

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	$^\circ\text{C}$
Storage Temp. Range	$T_{Stg}$	-40~ +90	$^\circ\text{C}$
Soldering Temp. (for 5 seconds)	$T_{Sol}$	260	$^\circ\text{C}$
Electrostatic Discharge	ESD	150	V
Peak Forward Current (Duty 1/10 @ 1KHz)	$I_F$	100	mA

### Electro-Optical Characteristics ( $T_a = 25^\circ\text{C}$ )

Characteristics	Symbol	Test Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	$V_F$	$I_F = 20 \text{ mA}$	-	3.30	3.65	V
Reverse Current	$I_R$	$V_R = 5 \text{ V}$	-	-	50	$\mu\text{A}$
Luminous Intensity	$I_V$	$I_F = 20 \text{ mA}$	90	182	-	mcd
Chromaticity Coordinates	x	$I_F = 20 \text{ mA}$	-	0.29	-	nm
Chromaticity Coordinates	y	$I_F = 20 \text{ mA}$	-	0.30	-	nm
Full Viewing Angle	$2\theta \ 1/2$	$I_F = 20 \text{ mA}$	-	150	-	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:



