



AND190HBA

GaN High Brightness Blue Light Emission T-3 Package (10 mm)

Features

- · New emission material (GaN) blue LED
- Peak wavelength (λp = 430 nm) high bright emission
- · All plastic mold type, clear colorless lens
- Low drive current, (forward current = 1 to 20 mA)
- · Excellent On-Off contrast ratio
- Fast response time, capable of pulse operation
- · High power luminous intensity
- Suitable for Outdoor Message Signboards, Automotive Use
- RoHS Compliant

Maximum Ratings $(T_a = 25^{\circ}C)$

Characteristics	Symbol	Rating	Unit
Forward Current	I _F	30	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	125	mW
Operating Temperature Range	T _{Opr}	-40 to 85	°C
Storage Temperature Range	T _{Stg}	-40 to 100	°C

Electro-Optical Characteristics (T_a = 25°C)

Characteristics	Symbol	Test Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F = 20 mA	_	3.8	4.5	V
Reverse Current	I _R	V _R = 5 V	_	_	10	μA
Luminous Intensity	I _V	I _F = 20 mA	1,000	1,500	_	mcd
Peak Emission Wavelength	λ _P	I _F = 20 mA	_	430	_	nm
Spectral Line Half Width	Δλ	I _F = 20 mA	_	65	_	nm
Dominant Wavelength	λd	I _F = 20 mA	_	466	_	nm
Full Viewing Angle	θ	I _V = 1/2 Peak	_	10	_	degree

Precaution

Please be careful of the following:

- 1. Soldering temperature: 260°C max
 - Soldering time: 5 sec. max
 - Soldering portion of lead: up to 1.6 mm from the body of the device
- 2. The lead can be formed up to 5 mm from the body of the device without forming stress. Soldering should be performed after the lead forming.
- 3. Absolute secure counter measures against static electricity and surge should be taken when handling these products. It is recommended to use wrist band or antistatic gloves when handling these LEDs.

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.