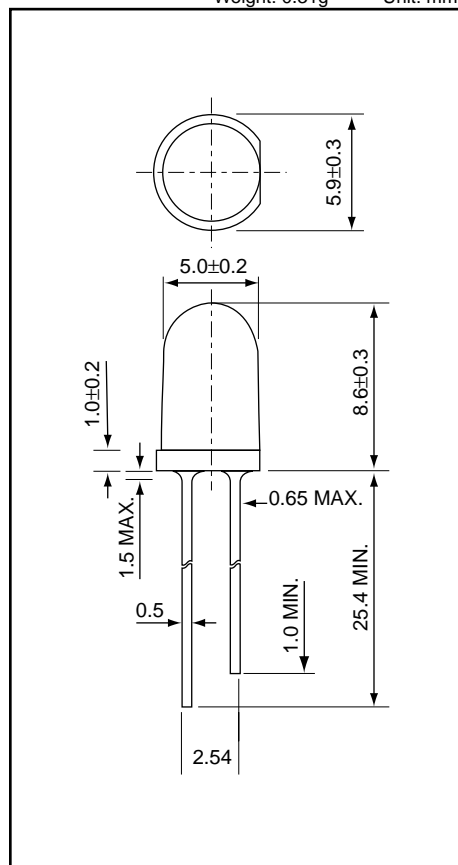




Weight: 0.31g Unit: mm



AND412HB

InGaN High Intensity Blue Light Emission

- 5 mm (T1-3/4) Package
- Available on tape and reel
- Peak wavelength ($\lambda_p = 470\text{nm}$) high bright emission
- All plastic mold type, clear colorless lens
- Low drive current: 1 to 20 mA DC
- Excellent On-Off contrast ratio
- Fast response time, capable of pulse operation
- High power intensity – suitable for indoor/outdoor applications
- High reliability

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

Characteristics	Symbol	Rating	Unit
Forward Current	I_F	30	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	120	mW
Operating Temperature Range	T_{Opr}	-40 to 85	°C
Storage Temperature Range	T_{Sig}	-40 to 100	°C

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

Characteristics	Symbol	Test Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V_F	$I_F = 20\text{ mA}$	–	3.5	4.0	V
Reverse Current	I_R	$V_R = 5\text{ V}$	–	–	10	μA
Luminous Intensity	I_V	$I_F = 20\text{ mA}$	400.0	530.0	–	mcd
Peak Emission Wavelength	λ_p	$I_F = 20\text{ mA}$	–	470	–	nm
Spectral Line Half Width	$\Delta\lambda$	$I_F = 20\text{ mA}$	–	40	–	nm
Dominant Wavelength	λ_d	$I_F = 20\text{ mA}$	464	–	468	nm
Full Viewing Angle	$2\theta_{1/2}$	$I_V = 1/2\text{ Peak}$	–	12	–	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.

