3.0mmx1.0mm RIGHT ANGLE INFRARED EMITTING DIODE

Part Number: APA3010F3C-GX

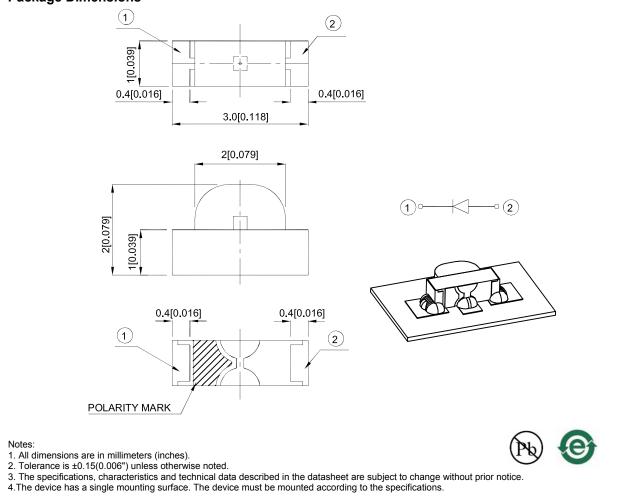
Features

- 3.0mmx2.0mmx1.0mm right angle SMD LED, 1.0mm thickness.
- Mechanically and spectrally matched to phototransistor.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability.
- RoHS compliant.

Description

F3 Made with Gallium Arsenide Infrared Emitting diodes.

Package Dimensions



SPEC NO: DSAL3678 APPROVED: Wynec REV NO: V.5A CHECKED: Allen Liu DATE: AUG/20/2015 DRAWN: M.Liu PAGE: 1 OF 5 ERP: 1203000562

Selection Guide

Selection Guide							
Part No.	Emitting Color (Material)	Lens Type	Po (mW/sr) [2] @ 20mA		Viewing Angle [1]		
			Min.	Тур.	201/2		
APA3010F3C-GX	Infrared (GaAs)	Water Clear	1.2	3	120°		
			*0.8	*2			

Notes:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

Radiant Intensity / luminous flux: +/-15%.
* Radiant intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Parameter	P/N	Symbol	Тур.	Max.	Units	Test Conditions
Forward Voltage [1]	F3	VF	1.2	1.6	V	I⊧=20mA
Reverse Current	F3	lr		10	uA	VR = 5V
Capacitance	F3	С	90		pF	VF=0V;f=1MHz
Peak Spectral Wavelength	F3	λP	940		nm	I⊧=20mA
Spectral Bandwidth	F3	Δλ1/2	50		nm	I⊧=20mA

Note:

1.Forward Voltage: +/-0.1V.

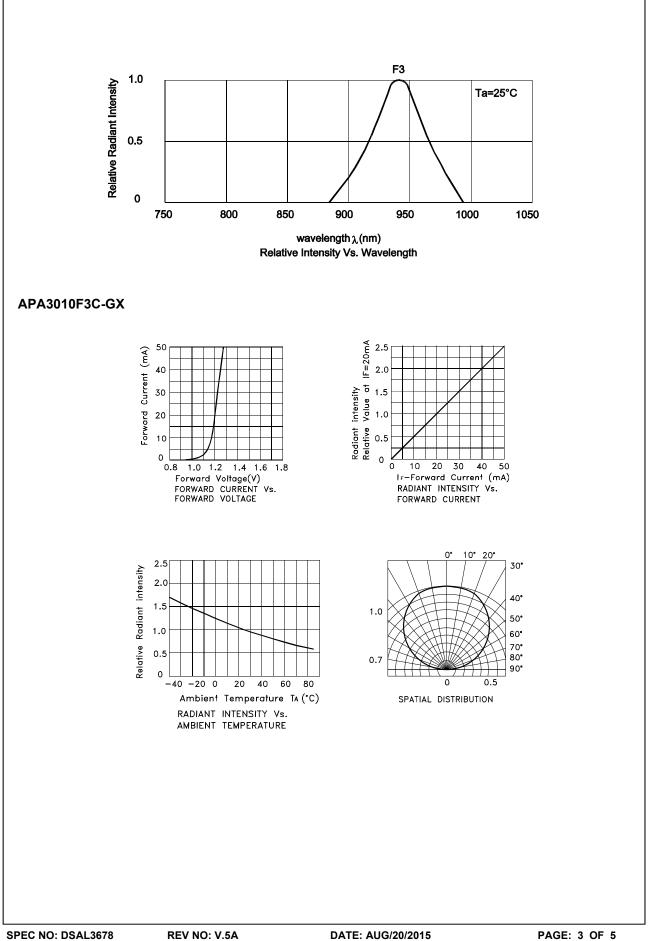
2.Wavelength value is traceable to the CIE127-2007 compliant national standards. 3.Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Parameter	Symbol	Values	Units
Power dissipation	Po	80	mW
DC Forward Current	lf	50	mA
Peak Forward Current [1]	İFS	1.2	А
Reverse Voltage	VR	5	V
Operating Temperature	Та	-40 To +85	°C
Storage Temperature	Тѕтс	-40 To +85	°C

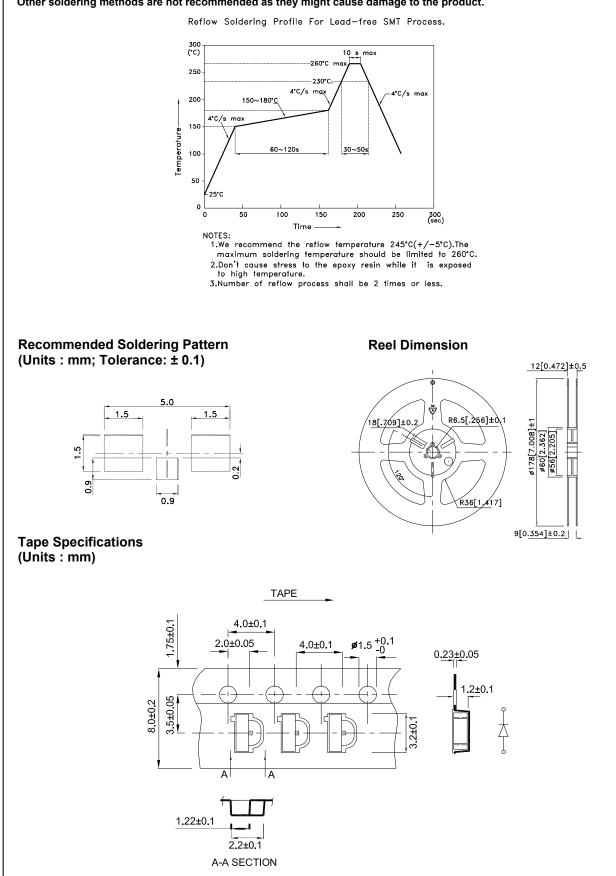
Note:

1. 1/100 Duty Cycle, 10µs Pulse Width.

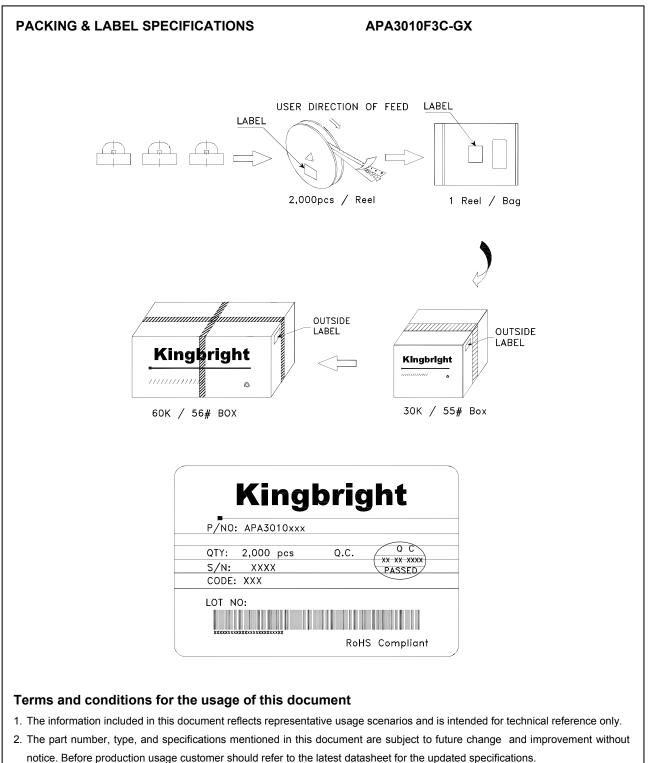


APA3010F3C-GX

Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.



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- 3. When using the products referenced in this document, please make sure the product is being operated within the environmental and electrical limits specified in the datasheet. If customer usage exceeds the specified limits, Kingbright will not be responsible for any subsequent issues.
- 4. The information in this document applies to typical usage in consumer electronics applications. If customer's application has special reliability requirements or have life-threatening liabilities, such as automotive or medical usage, please consult with Kingbright representative for further assistance.
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