#### 1.6x0.8mm INFRARED EMITTING DIODE

Part Number: APT1608F3C

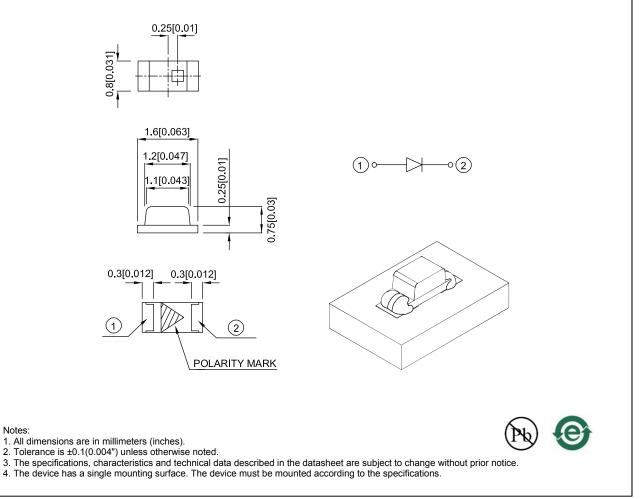
#### Features

- 1.6mmX0.8mm SMT LED, 0.75mm thickness.
- Mechanically and spectrally matched to phototransistor.
- Package: 2000pcs / reel .
- Moisture sensitivity level : level 3.
- RoHS compliant.

#### Description

F3 Made with Gallium Arsenide Infrared Emitting diodes.

#### **Package Dimensions**



REV NO: V.6A CHECKED: Allen Liu DATE: MAR/18/2015 DRAWN: P.Cheng

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#### **Selection Guide** Po (mW/sr) [2] Viewing @ 20mÁ Angle [1] Part No. Dice Lens Type Min. 201/2 Тур. 1.2 3 APT1608F3C F3 (GaAs) Water Clear 120° \*2 \*0.8

Notes

1.  $\theta$ 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	IF=20mA

Notes:

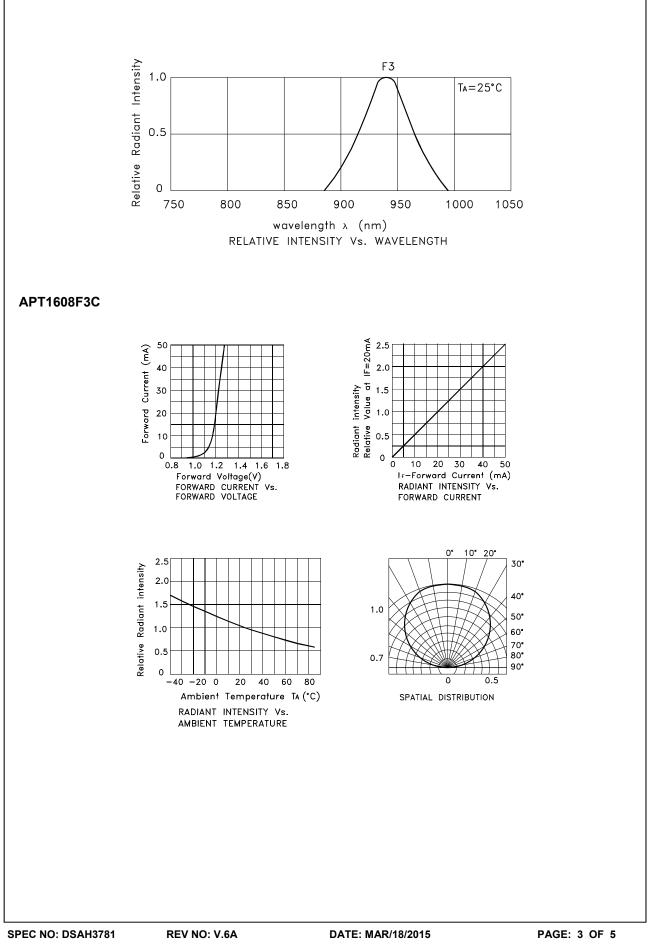
Forward Voltage: +/-0.1V.
Wavelength value is traceable to the CIE127-2007 compliant national standards.

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

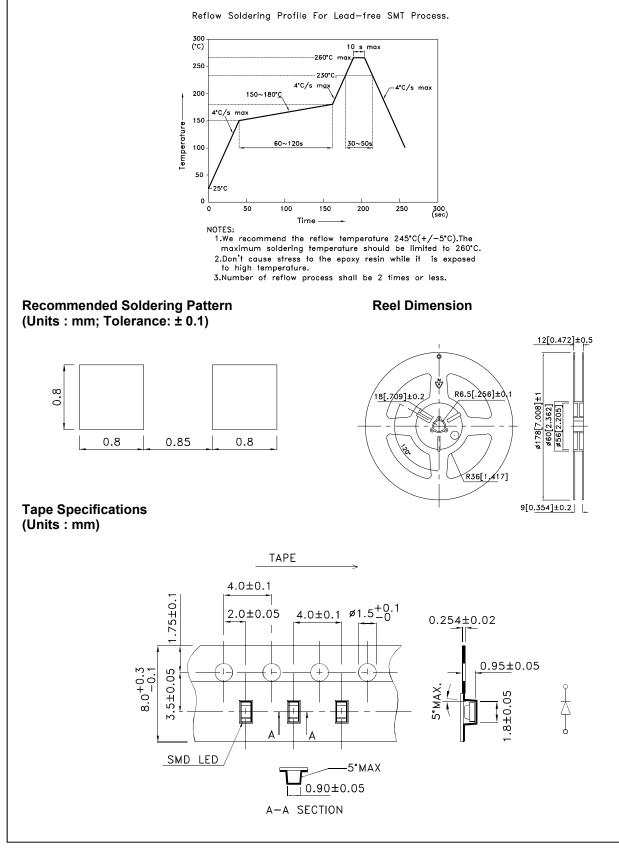
Parameter	Symbol	F3	Units
Power dissipation	Po	80	mW
DC Forward Current	lF	50	mA
Peak Forward Current [1]	ifs	1.2	А
Reverse Voltage	VR	5	V
Operating Temperature	Та	-40 To +85	С°
Storage Temperature	Тѕтс	-40 To +85	°C

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

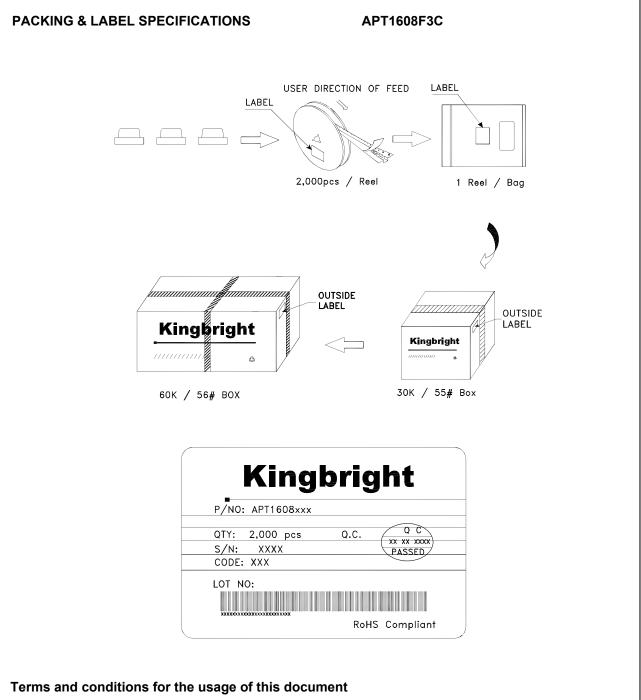


### APT1608F3C

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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