### 2.0x1.25mm INFRARED EMITTING DIODE

Part Number: KP-2012F3C

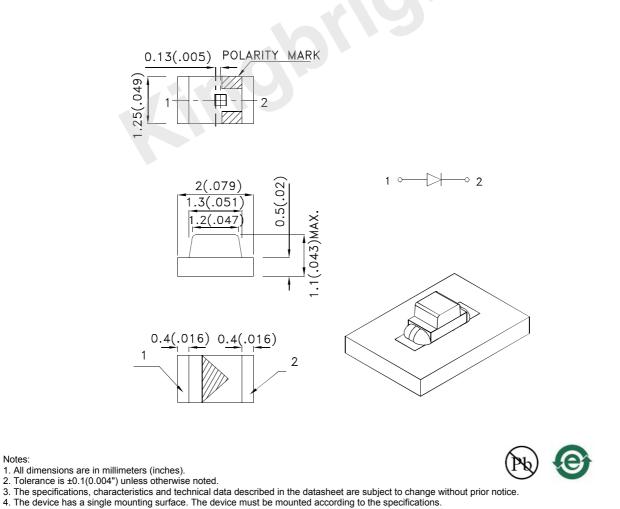
#### **Features**

- 2.0mmx1.25mm SMT LED,1.1mm thickness.
- Mechanically and spectrally matched to the 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.13A **CHECKED:** Allen Liu DATE: NOV/04/2011 DRAWN: Y.H.Wu

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#### Selection Guide

Part No.	Dice	Lens Type	Po (mW/sr) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KP-2012F3C	F3 (GaAs)	Watan Olaan	1.2	3	120°
		Water Clear	*0.8	*2	

Notes:

θ1/2 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	IF=20mA
Spectral Bandwidth	F3	Δλ1/2	50		nm	IF=20mA

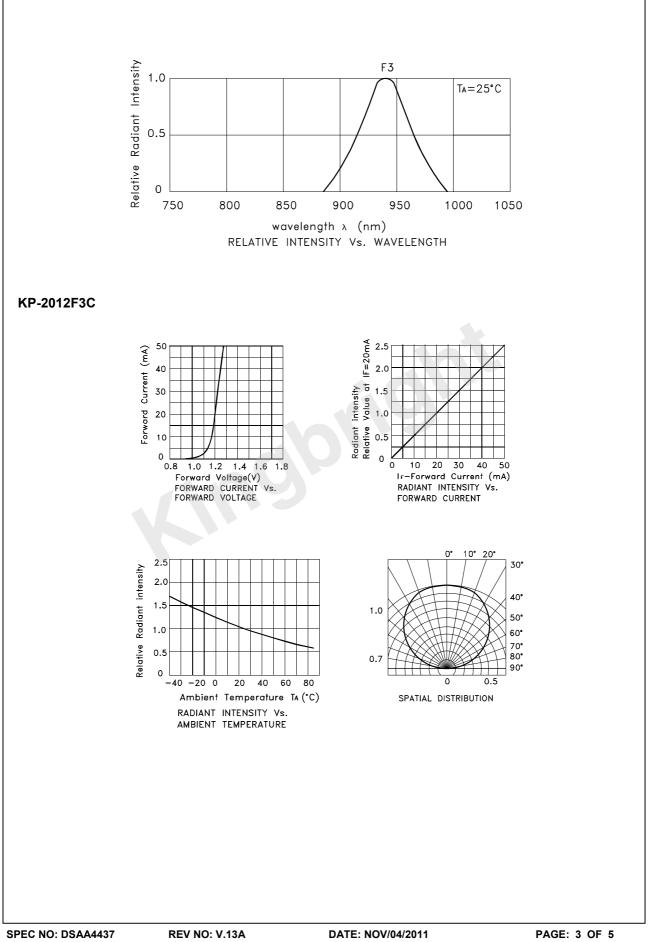
Note:

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

#### 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	°C
Storage Temperature	Тятд	-40 To +85	°C

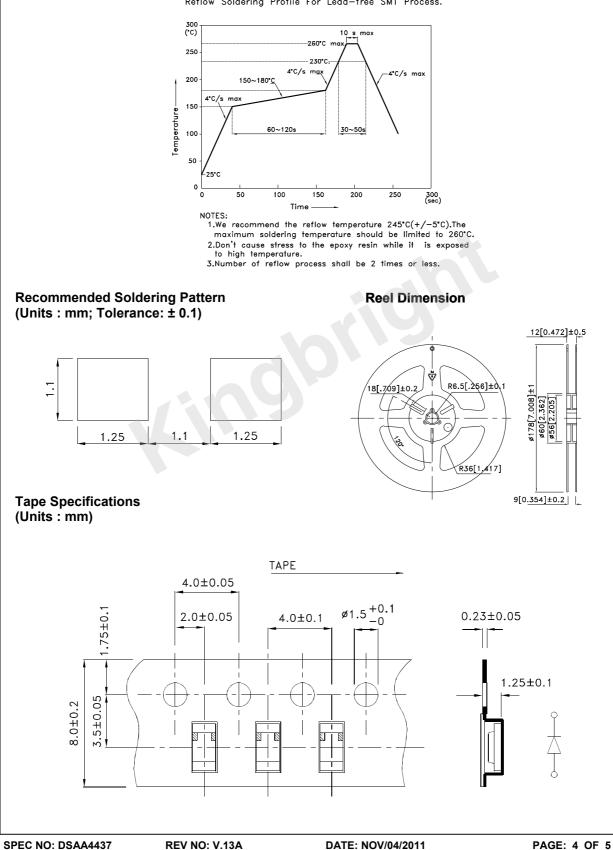
Note: 1. 1/100 Duty Cycle, 10µs Pulse Width.



### KP-2012F3C

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.

Reflow Soldering Profile For Lead-free SMT Process.

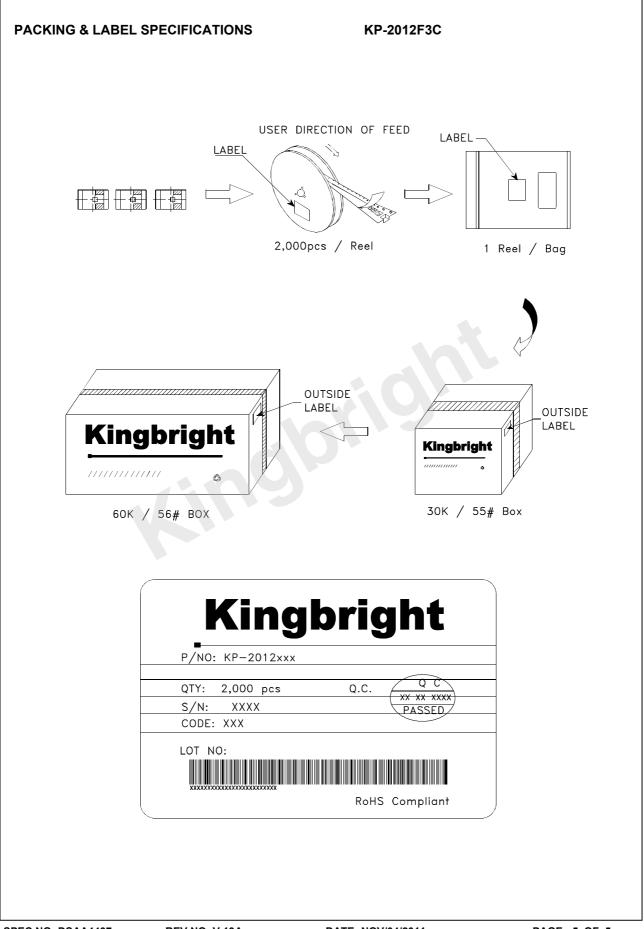


SPEC NO: DSAA4437 **APPROVED: WYNEC** 

**CHECKED: Allen Liu** 

DRAWN: Y.H.Wu

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