3.0mmx1.0 mm RIGHT ANGLE INFRARED EMITTING DIODE

Part Number: KPA-3010F3C

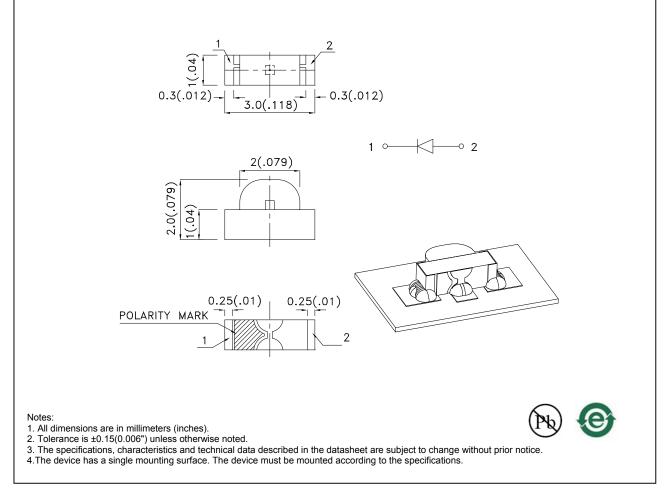
Features

- 3.0mmx1.0mm right angle SMT LED, 2.0mm 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: DSAA1131 APPROVED: WYNEC REV NO: V.16A CHECKED: Allen Liu DATE: OCT/28/2013 DRAWN: D.N.Huang PAGE: 1 OF 5 ERP: 1203000562

Solaction Guida

Selection Guide					
Part No.	Dice	Lens Type	Po (mW/sr) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPA-3010F3C	F3 (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

Notes:

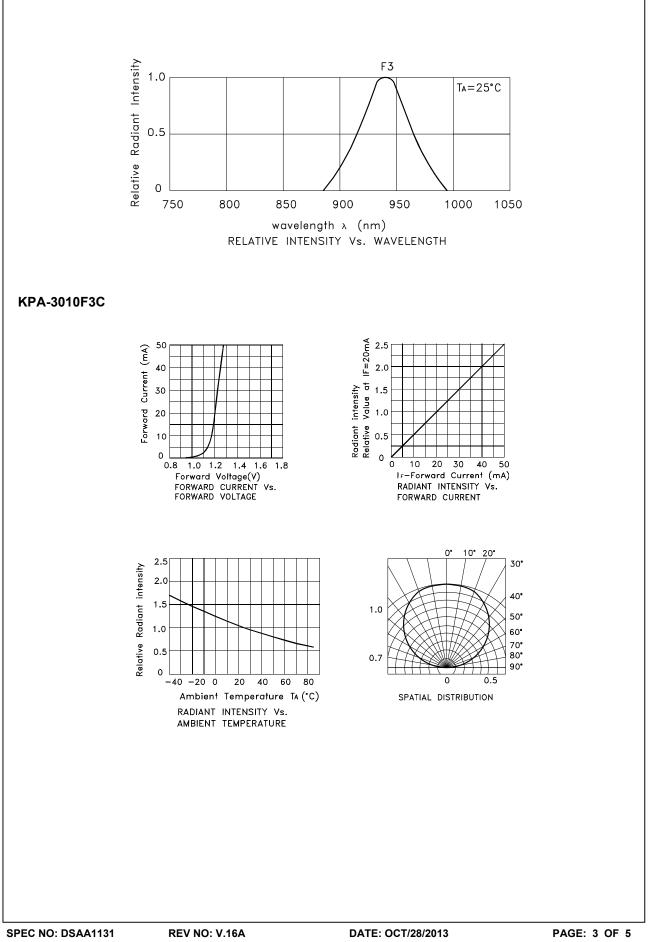
1.Forward Voltage: +/-0.1V.

2. Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

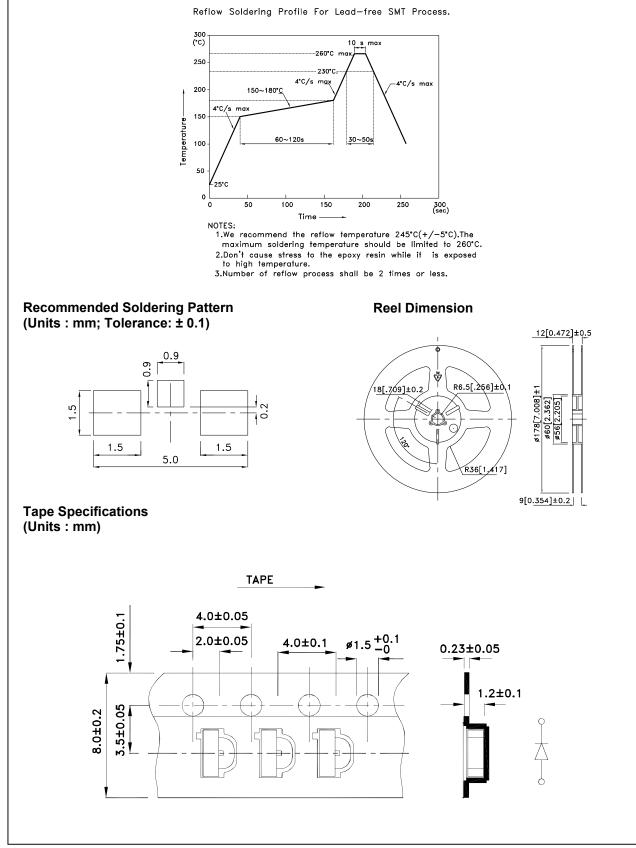
Parameter	Symbol	F3	Units
Power dissipation	Po	80	mW
DC Forward Current	lf	50	mA
Peak Forward Current [1]	ifs	1.2	A
Reverse Voltage	VR	5	V
Operating Temperature	Та	-40 To +85	°C
Storage Temperature	Тятд	-40 To +85	°C

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

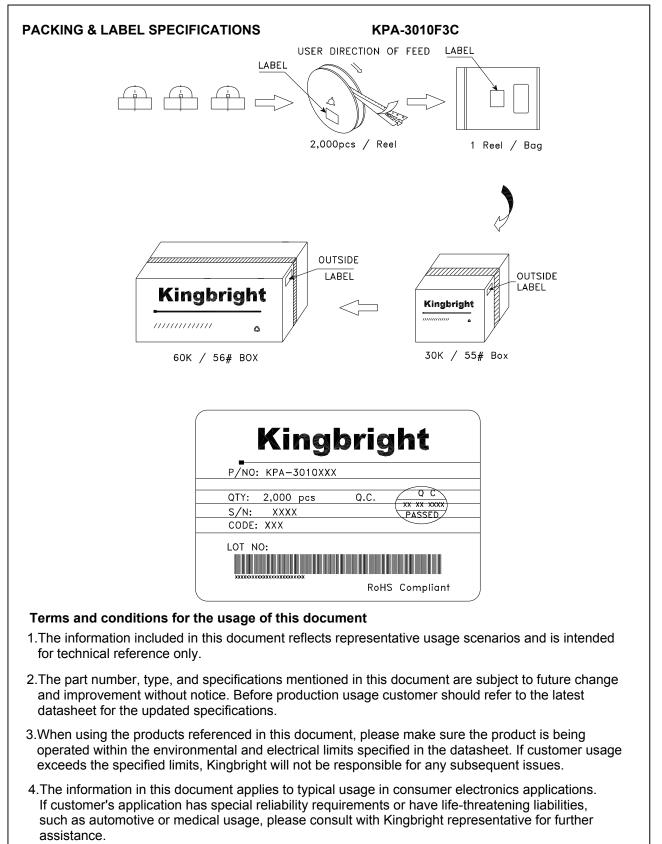


KPA-3010F3C

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.



REV NO: V.16A CHECKED: Allen Liu DATE: OCT/28/2013 DRAWN: D.N.Huang PAGE: 4 OF 5 ERP: 1203000562



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6.Detailed application notes are listed on our website. http://www.kingbright.com/application_notes