2.0x1.25mm INFRARED EMITTING DIODE

Part Number: KP-2012SF4C

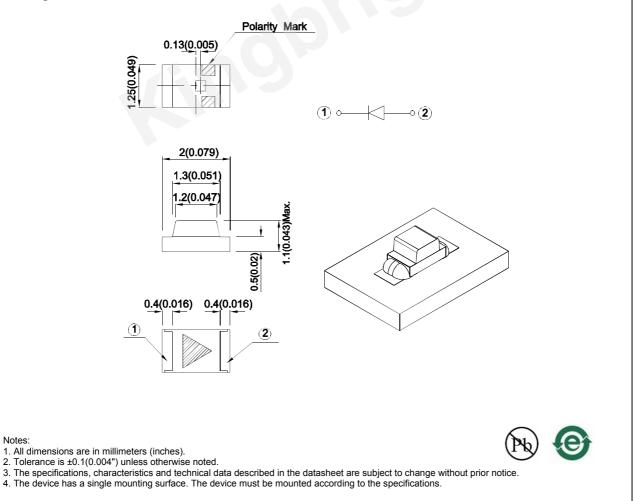
Features

- 2.0mmx1.25mm SMD LED,1.1mm thickness.
- Mechanically and spectrally matched to the phototransistor.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

SF4 Made with Gallium Aluminum Arsenide Infrared Emitting diodes.

Package Dimensions



SPEC NO: DSAB1069 APPROVED: Wynec REV NO: V.14B CHECKED: Allen Liu DATE: JUL/02/2016 DRAWN: F.Zhang PAGE: 1 OF 5 ERP: 1203000168

Selection Guide

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Part No.	Emitting Color (Material)	Lens Type	Po (mW/sr) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KP-2012SF4C	Infrared (GaAlAs)	Water Clear	0.8	1.5	160°

Notes:

1. 01 / 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 CIE127-2007 standards.

Electrical / Optical Characteristics at TA=25°C

Parameter	P/N	Symbol	Тур.	Max.	Units	Test Conditions
Forward Voltage [1]	SF4	VF	1.3	1.6	V	I⊧=20mA
Reverse Current	SF4	lr		10	uA	VR = 5V
Capacitance	SF4	С	90		pF	VF=0V;f=1MHz
Peak Spectral Wavelength	SF4	λP	880		nm	I⊧=20mA
Spectral Bandwidth	SF4	Δλ1/2	50		nm	I⊧=20mA

Notes:

1. Forward Voltage: + / -0.1V.

2. Wavelength value is traceable to CIE127-2007 standards.

3. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

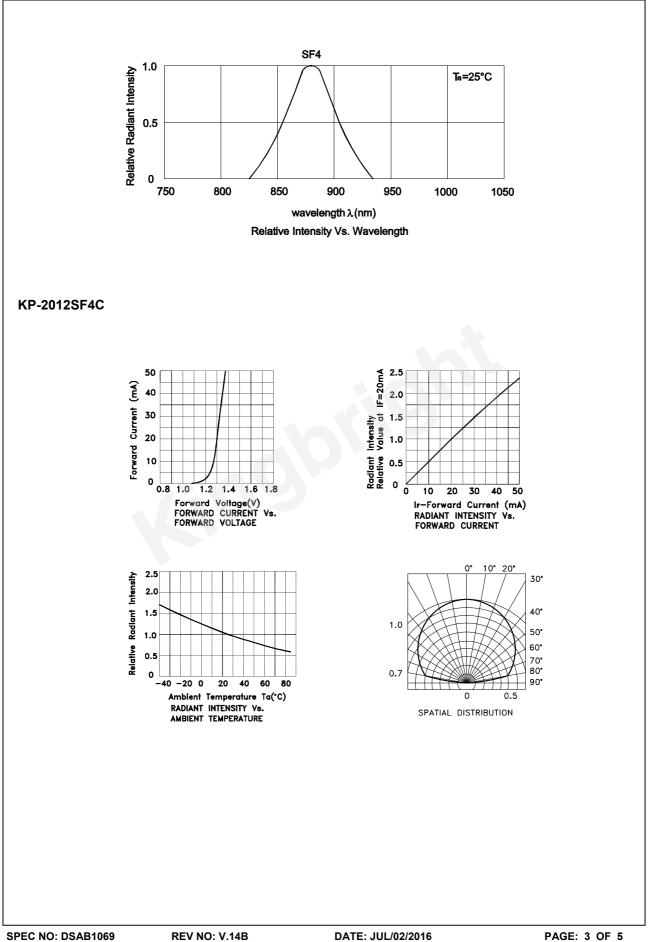
Absolute Maximum Ratings at TA=25°C

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	Тятд	-40 To +85	°C

Notes:

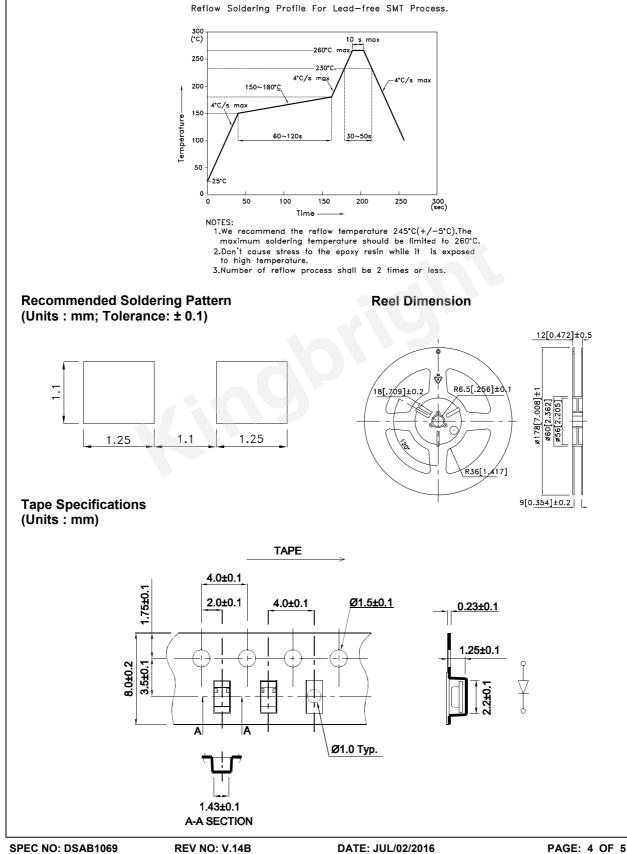
1. 1/100 Duty Cycle, 0.1ms Pulse Width.

2. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity - Ref JEDEC/JESD625-A and JEDEC/J-STD-033.



KP-2012SF4C

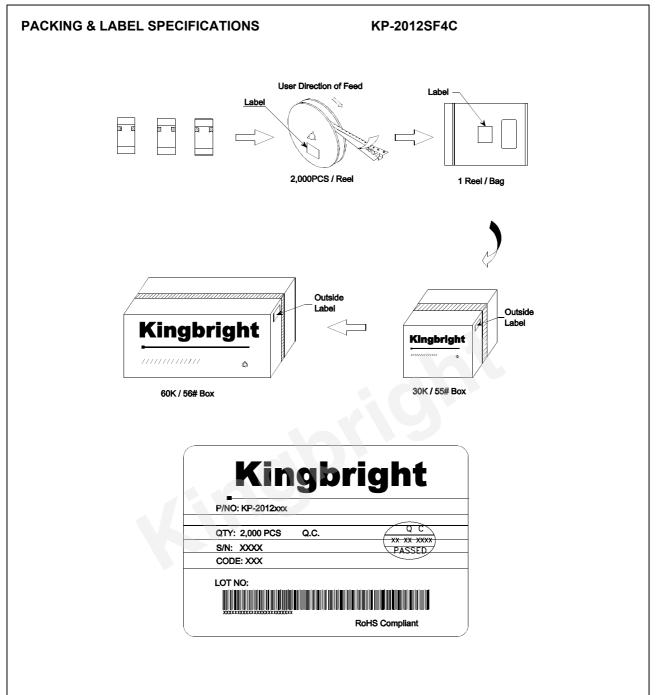
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.



APPROVED: Wynec

CHECKED: Allen Liu

DRAWN: F.Zhang



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