3.2x1.6mm INFRARED EMITTING DIODE

Part Number: AP3216SF4C

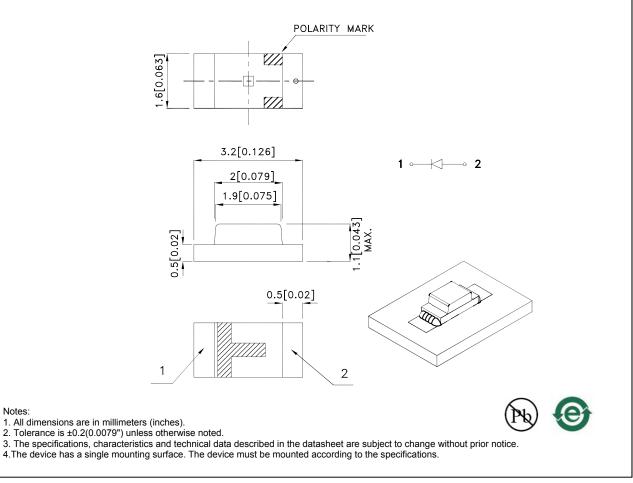
Features

- 3.2mmx1.6mm SMT LED, 1.1mm thickness.
- Mechanically and spectrally matched to the phototransistor.
- Wide viewing angle.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

SF4 Made with Gallium Aluminum Arsenide Infrared Emitting diodes.

Package Dimensions



SPEC NO: DSAA8461 APPROVED: WYNEC REV NO: V.8B CHECKED: Allen Liu DATE: Mar/02/2015 DRAWN: Q.M.Chen PAGE: 1 OF 5 ERP: 1203000401

Selection Guide

Part No.	Dice	Lens Type	Po (mW/sr) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
AP3216SF4C	SF4 (GaAlAs)	Water Clear	0.8	1.5	120°

Notes:
1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
2. *Radiant intensity with asterisk is measured at 50mA;Radiant Intensity/ luminous flux: +/-15%.
3. Radiant intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

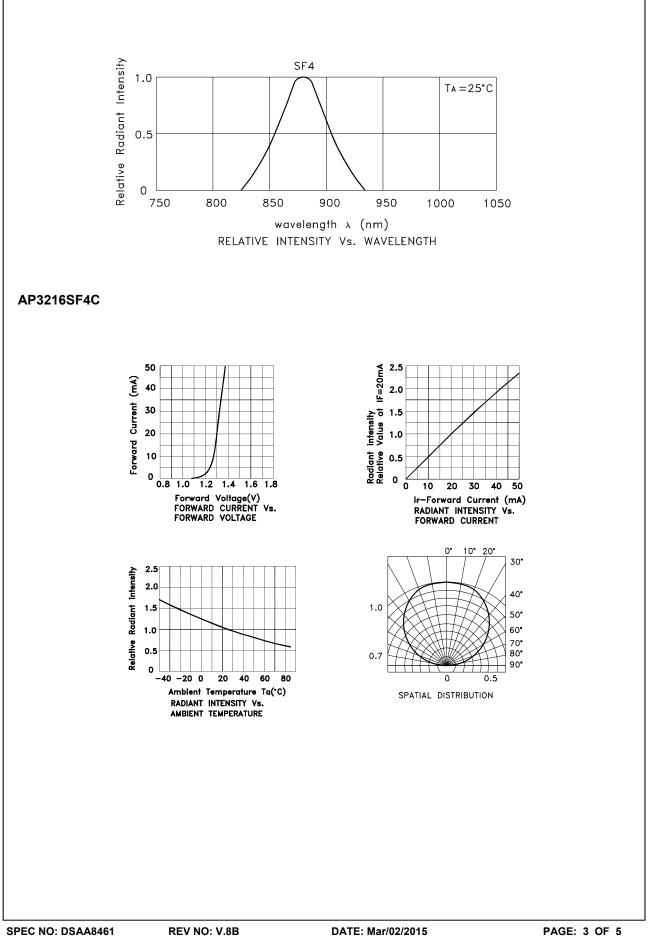
Parameter	P/N	Symbol	Тур.	Max.	Units	Test Conditions
Forward Voltage [1]	SF4	VF	1.3	1.6	V	I⊧=20mA
Reverse Current	SF4	lr		10	uA	VR = 5V
Capacitance	SF4	С	90		pF	VF=0V;f=1MHz
Peak Spectral Wavelength	SF4	λP	880		nm	I⊧=20mA
Spectral Bandwidth	SF4	Δλ1/2	50		nm	I⊧=20mA

Forward Voltage: +/-0.1V.
 Wavelength value is traceable to the CIE127-2007 compliant national standards.
 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	SF4	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.

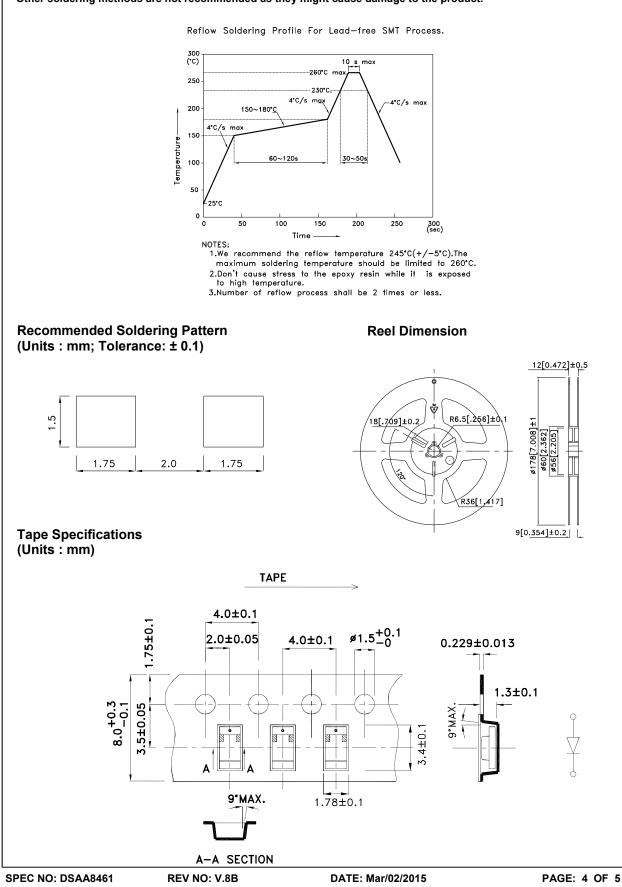


AP3216SF4C

APPROVED: WYNEC

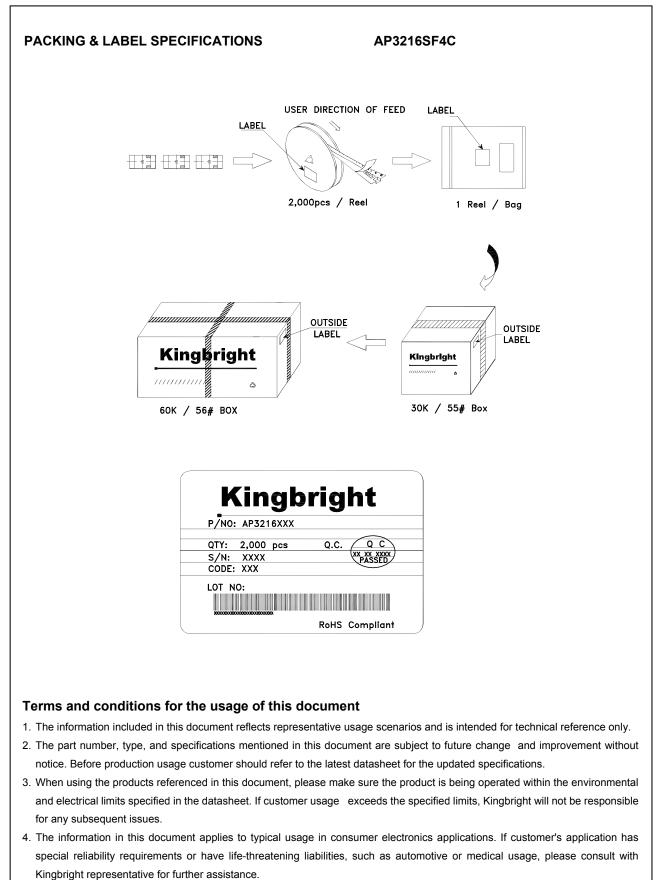
CHECKED: Allen Liu

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.



DRAWN: Q.M.Chen

ERP: 1203000401



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- 6. All design applications should refer to Kingbright application notes available at http://www.KingbrightUSA.com/ApplicationNotes

DATE: Mar/02/2015 DRAWN: Q.M.Chen