

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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1.6X0.8mm INFRARED EMITTING DIODE

Part Number: AP1608SF4C

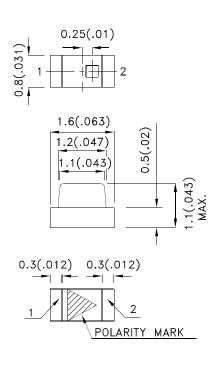
Features

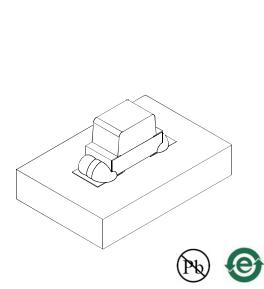
- 1.6mmX0.8mm SMT LED, 1.1mm thickness.
- Mechanically and spectrally matched to the phototransistor.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

SF4 Made with Gallium Aluminum Arsenide Infrared Emitting diodes.

Package Dimensions





- 1. All dimensions are in millimeters (inches).
 2. Tolerance is ±0.1(0.004") unless otherwise noted.
 3.The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
 4.The device has a single mounting surface. The device must be mounted according to the specifications.

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Selection Guide

Part No.	Dice	Lens Type	Po (mW/sr) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
AP1608SF4C	SF4 (GaAlAs)	Water Clear	0.8	1.5	120°

- Notes: 1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value. 2. Radiant Intensity/ luminous flux: +/-15%.

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	IF=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	Ir=20mA	
Spectral Bandwidth	SF4	Δλ1/2	50		nm	IF=20mA	

Note:

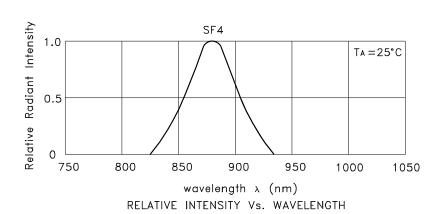
Absolute Maximum Ratings at TA=25°C

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Parameter	Symbol	SF4	Units			
Power dissipation	Pb	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	Тѕтс	-40 To +85	°C			

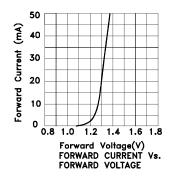
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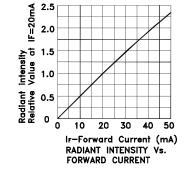
^{1.} Forward Voltage: +/-0.1V.

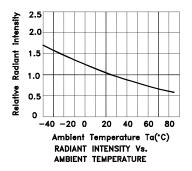
Note: 1. 1/100 Duty Cycle, 10µs Pulse Width.

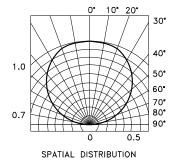


AP1608SF4C









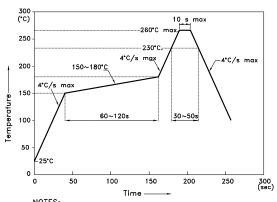
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AP1608SF4C

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.



NOTES:

1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

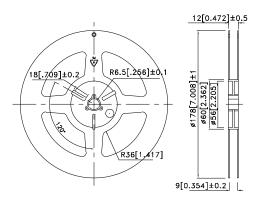
2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

3. Number of reflow process shall be 2 times or less.

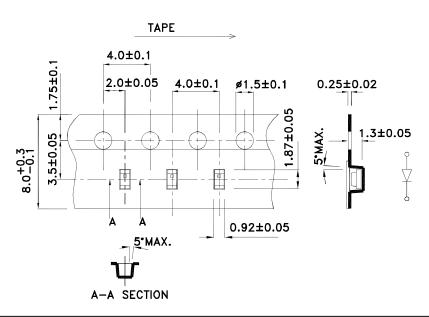
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

0.8 0.85 0.8

Reel Dimension

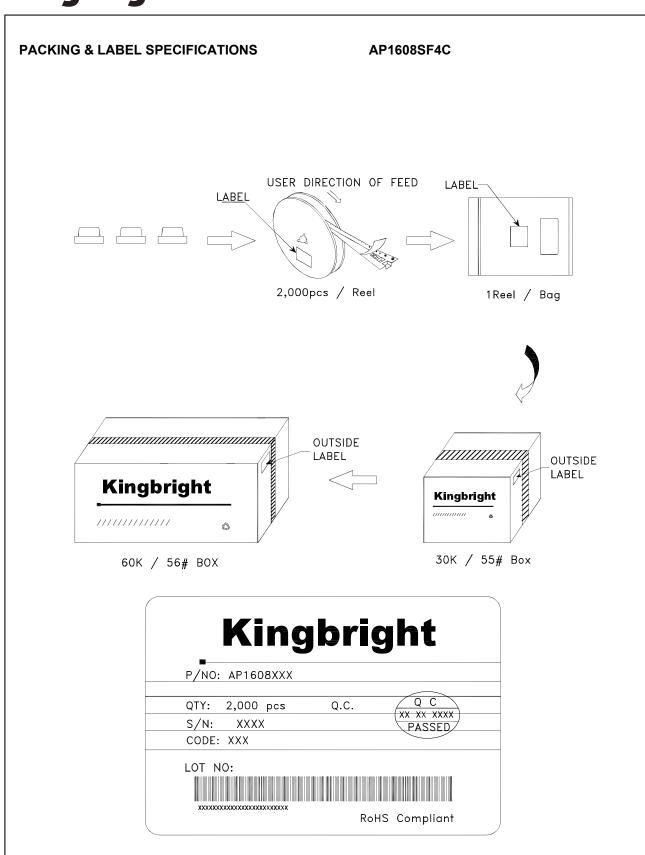


Tape Specifications (Units: mm)



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