

INFRARED EMITTING DIODE

Part Number: AM2520SF4C03

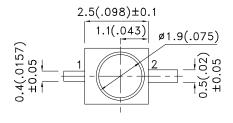
Features

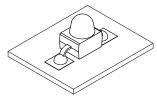
- Subminiature package.
- Mechanically and spectrally matched to the phototransistor.
- Gull wing lead.
- Long life solid state reliability.
- Low package profile.
- Package: 1000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

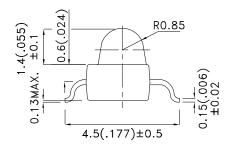
Description

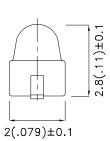
SF4 Made with Gallium Aluminum Arsenide Infrared Emitting diodes.

Package Dimensions









- 1. All dimensions are in millimeters (inches).
 2. Tolerance is ±0.25(0.01") unless otherwise noted.
 3. Lead spacing is measured where the leads emerge from the package.
 4. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

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Selection Guide

Part No.	Dice	Lens Type	Po (mW/sr) [2] @ 20mA *50mA		Viewing Angle [1]
			Min.	Тур.	201/2
AM2520SF4C03	SF4 (GaAlAs)	Water Clear	3	5	20°
			*4	*9	

Notes:

- 1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value. 2. * Luminous intensity with asterisk is measured at 50mA;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	IF=20mA	
Spectral Bandwidth	SF4	Δλ1/2	50		nm	IF=20mA	

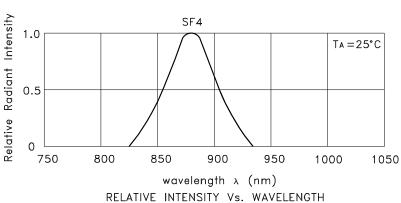
Note: 1. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

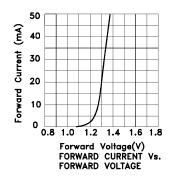
Absolute maximum ratings at 1A 20 0						
Parameter	Symbol	SF4	Units			
Power dissipation	Po	80	mW			
DC Forward Current	lF	50	mA			
Peak Forward Current [1]	İFS	1.2	А			
Reverse Voltage	VR	5	V			
Operating Temperature	Та	-40 To +85	°C			
Storage Temperature	Тѕтс	-40 To +85	°C			

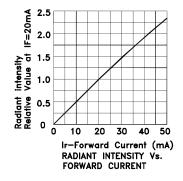
Note: 1. 1/100 Duty Cycle, 10µs Pulse Width.

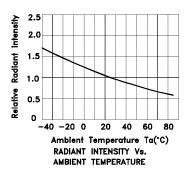
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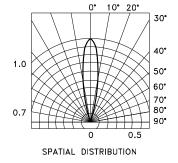


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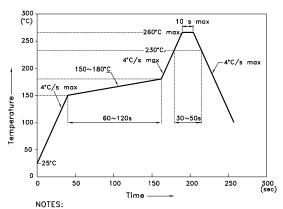


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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

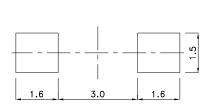
Reflow Soldering Profile For Lead-free SMT Process.



- 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.

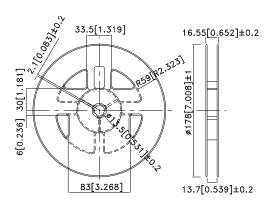
 3.Number of reflow process shall be 2 times or less.

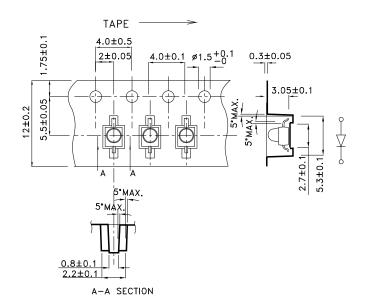
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Tape Specifications (Units: mm)

Reel Dimension



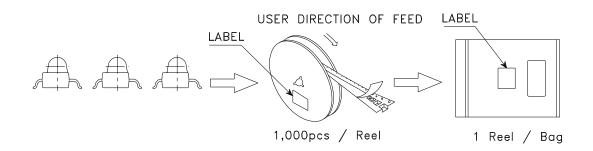


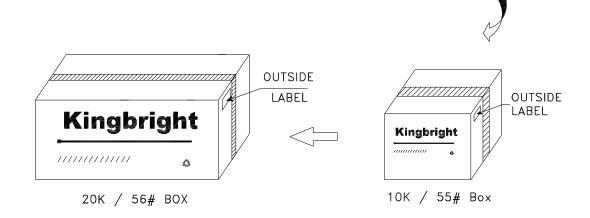
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PACKING & LABEL SPECIFICATIONS

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