

1.6x0.8mm INFRARED EMITTING DIODE

Part Number: APT1608SF4C-PRV

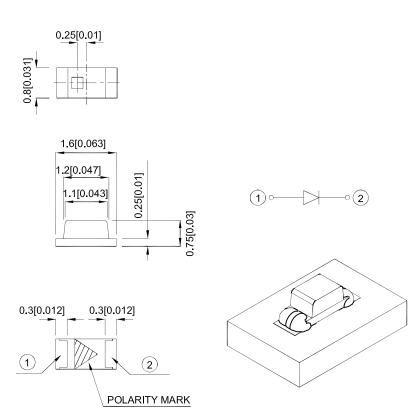
Features

- 1.6mmX0.8mm SMT LED, 0.75mm thickness.
- Mechanically and spectrally matched to 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 $\pm 0.1 (0.004")$ unless otherwise noted.
- The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
 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
APT1608SF4C-PRV	SF4 (GaAlAs)	Water Clear	8.0	1.5	120°

- 1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value. 2. Radiant Intensity/ luminous flux: +/-15%.
- 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	IF=20mA	
Reverse Current	SF4	lr		10	uA	V _R = 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	

Notes:

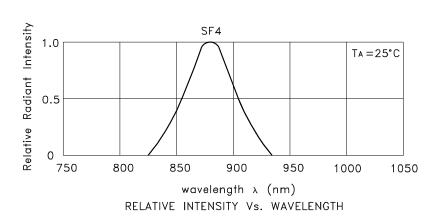
- 1. Forward Voltage: +/-0.1V.
 2. Wavelength value is traceable to the CIE127-2007 compliant national standards.
 3. Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

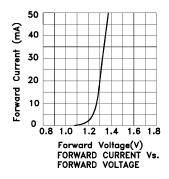
Alboorato maximum ratingo at 171 20 0						
Parameter	Symbol	SF4	Units			
Power dissipation	PD	80	mW			
DC Forward Current	lF	50	mA			
Peak Forward Current [1]	iFS	1.2	Α			
Reverse Voltage	VR	5	V			
Operating Temperature	TA	-40 To +85	°C			
Storage Temperature	Тѕтс	-40 To +85 °C				

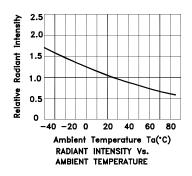
Note: 1. 1/100 Duty Cycle, 10µs Pulse Width.

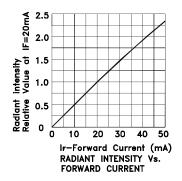
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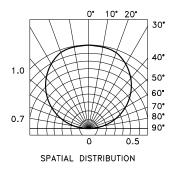


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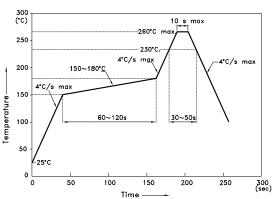
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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

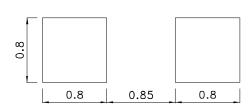
Reflow Soldering Profile For Lead-free SMT Process.



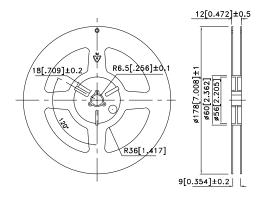
NOTES

- 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)



Reel Dimension



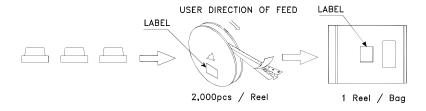
Tape Specifications (Units: mm)

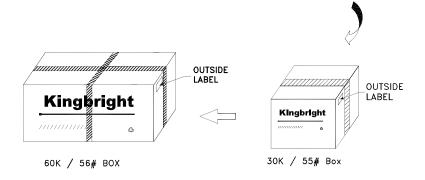
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PACKING & LABEL SPECIFICATIONS

APT1608SF4C-PRV







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