

Part Number: KM-4457SF4C

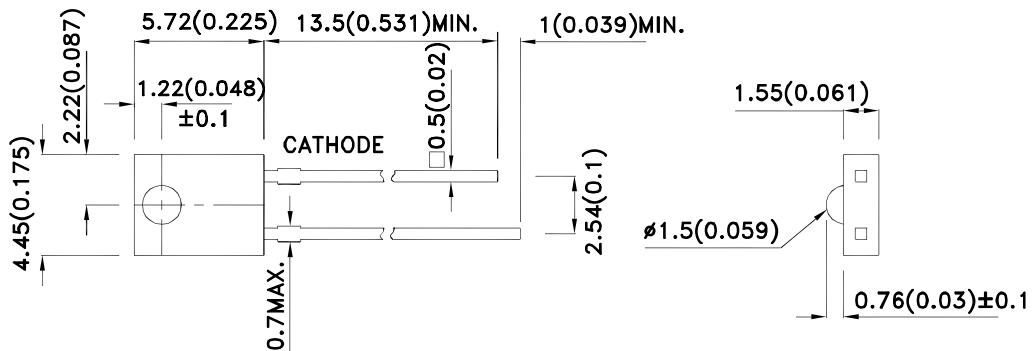
### Features

- Side looking package.
- Mechanically and spectrally matched to phototransistor.
- RoHS compliant.

### Description

SF4 Made with Gallium Aluminum Arsenide Infrared Emitting diodes.

### Package Dimensions



#### Notes:

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.



## Selection Guide

Part No.	Dice	Lens Type	Po (mW/sr) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
KM-4457SF4C	SF4 (GaAlAs)	Water Clear	2	4	70°

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/ 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	Typ.	Max.	Units	Tes Conditions
Forward Voltage [1]	SF4	V <sub>F</sub>	1.3	1.6	V	I <sub>F</sub> =20mA
Reverse Current	SF4	I <sub>R</sub>		10	uA	V <sub>R</sub> = 5V
Capacitance	SF4	C	90		pF	V <sub>F</sub> =0V;f=1MHz
Peak Spectral Wavelength	SF4	λ <sub>P</sub>	880		nm	I <sub>F</sub> =20mA
Spectral Bandwidth	SF4	Δλ1/2	50		nm	I <sub>F</sub> =20mA

Note:

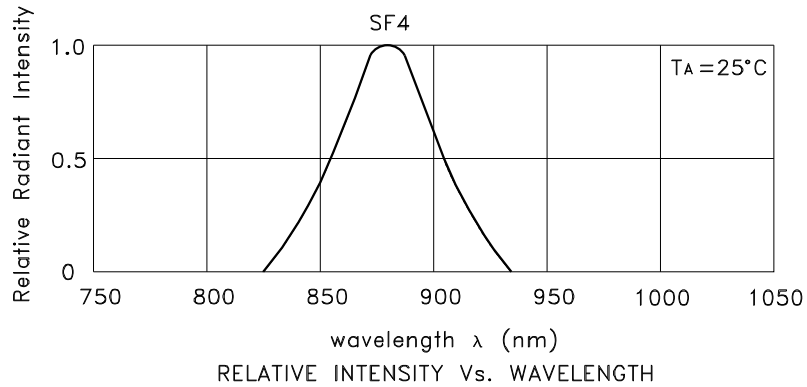
1. Forward Voltage: +/-0.1V.
2. Wavelength value is traceable to the CIE127-2007 compliant national standards.

## Absolute Maximum Ratings at TA=25°C

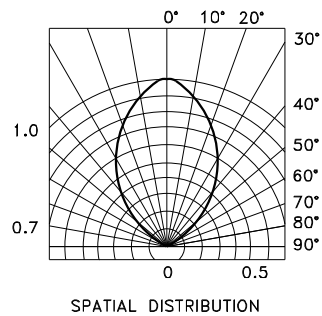
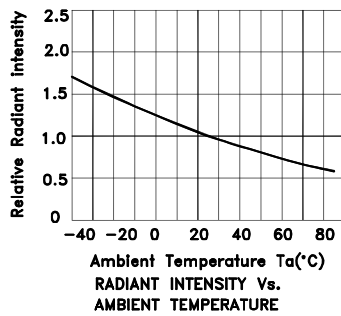
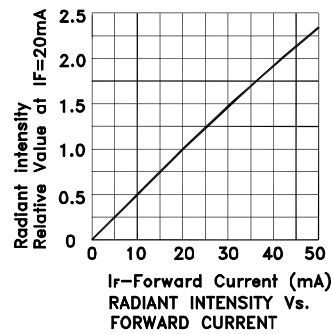
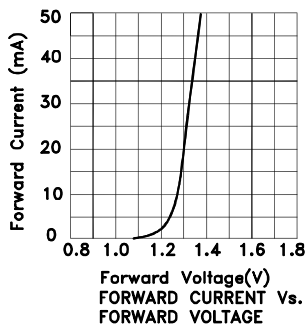
Parameter	Super Bright Red	Units
Power dissipation	80	mW
DC Forward Current	50	mA
Peak Forward Current [1]	1.2	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 3 Seconds	
Lead Solder Temperature [3]	260°C For 5 Seconds	

Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.
3. 5mm below package base.

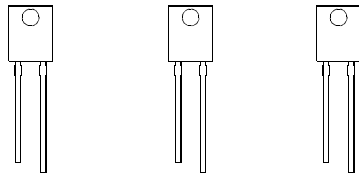


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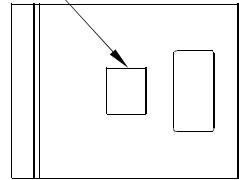


## PACKING & LABEL SPECIFICATIONS

## KM-4457SF4C



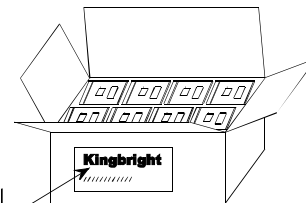
LABEL



500PCS/BAG




OUTSIDE LABEL



OUTSIDE LABEL

30K/9# BOX

15K/5# BOX

<h1>Kingbright</h1>	
P/NO: KM-4457xxx	
QTY: 500 pcs	Q.C. <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">Q C xx xx xxxx PASSED</span>
S/N: XXXX	
CODE: XXX	
LOT NO:	
 xxxxxxxxxxxxxxxxxxxxxxxxxxxx	
RoHS Compliant	

Detailed application notes are listed on our website.

[http://www.kingbright.com/application\\_notes](http://www.kingbright.com/application_notes)

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