

P/N: L-7113SF4BT

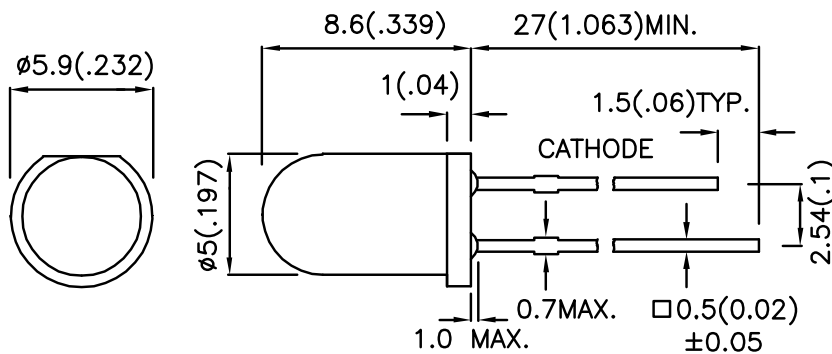
### Features

- MECHANICALLY AND SPECTRALLY MATCHED TO THE PHOTOTRANSISTOR.
- BLUE TRANSPARENT LENS .
- 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  $\pm 0.25(0.01)$  unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

## Selection Guide

Part No.	Dice	Lens Type	Po (mW/sr) @ 20mA *50mA		Viewing Angle
			Min.	Typ.	2θ1/2
L-7113SF4BT	GaAIAs	BLUE TRANSPARENT	4	20	20°
			*7	*30	

Notes:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. \* Luminous intensity with asterisk is measured at 50mA.

## Electrical / Optical Characteristics at TA=25°C

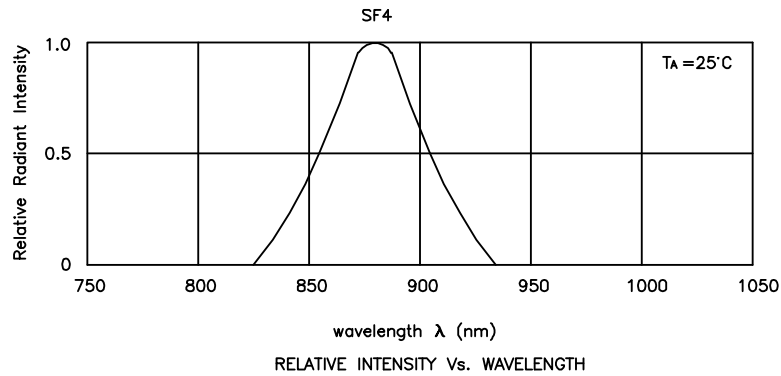
Item	P/N	Symbol	Typ.	Max.	Units	Test Conditions
Forward Voltage	SF4	V <sub>F</sub>	1.3	1.6	V	I <sub>F</sub> =20mA
Reverse Current	SF4	I <sub>R</sub>	-	10	uA	V <sub>R</sub> =5V
Capacitance	SF4	C	90	-	pF	V <sub>F</sub> =0V;f=1MHz
Peak Spectral Wavelength	SF4	λ <sub>P</sub>	880	-	nm	I <sub>F</sub> =20mA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

## Absolute Maximum Ratings at TA=25°C

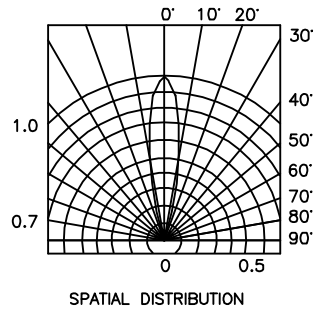
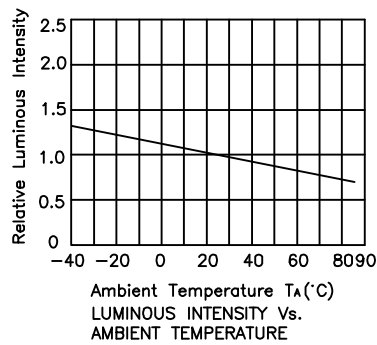
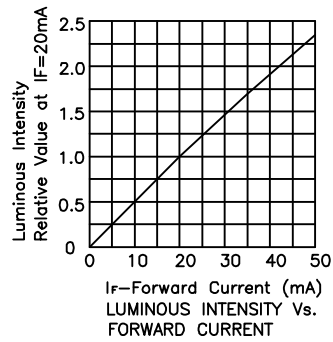
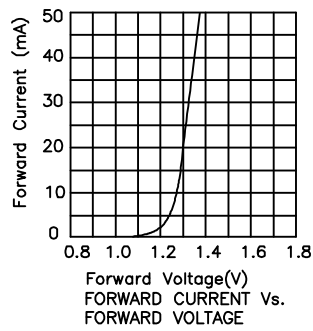
Parameter	Symbol	SF4	Units
Power Dissipation	P <sub>T</sub>	100	mW
DC Forward Current	I <sub>F</sub>	50	mA
Peak Forward Current[1]	i <sub>FS</sub>	1.2	A
Reverse Voltage	V <sub>R</sub>	5	V
Operating Temperature	T <sub>A</sub>	-40 To +85	°C
Storage Temperature	T <sub>STG</sub>	-40 To +85	°C
Lead Solder Temperature [2]	260°C For 3 Seconds		
Lead Solder Temperature [3]	260°C For 5 Seconds		

Notes:

1. 1/100 Duty Cycle, 10μs Pulse Width.
2. 2mm below package base.
3. 5mm below package base.



## L-7113SF4BT



**Remarks:**

If special sorting is required (e.g. binning based on forward voltage or radiant intensity/ luminous flux), the typical accuracy of the sorting process is as follows:

1. Radiant Intensity/ Luminous Flux: +/-15%
2. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.