

L-34SF6BT

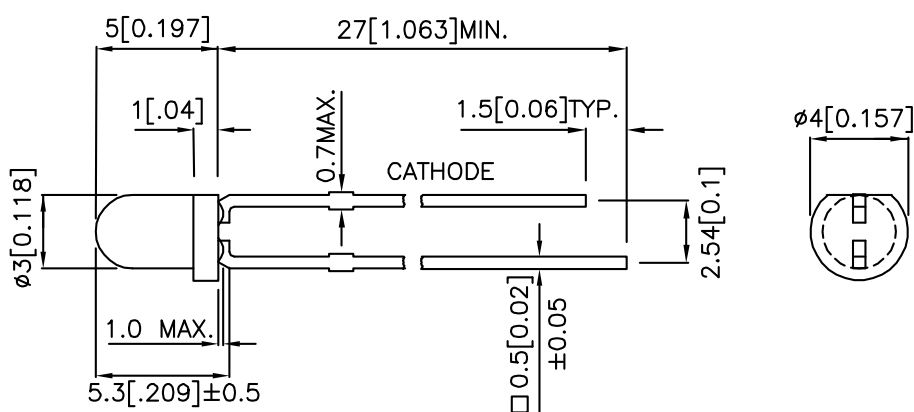
### Features

- MECHANICALLY AND SPECTRALLY MATCHED TO THE L-32P3C PHOTOTRANSISTOR.
- BLUE TRANSPARENT LENS.
- RoHS COMPLIANT.

### Description

SF6 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) @ 20 mA*50mA		Viewing Angle
			Min.	Typ.	2 $\theta$ 1/2
L-34SF6BT	GaAlAs	BLUE TRANSPARENT	7	15	50°
			*10	*40	50°

Notes:

1.  $\theta$  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 T<sub>A</sub>=25°C

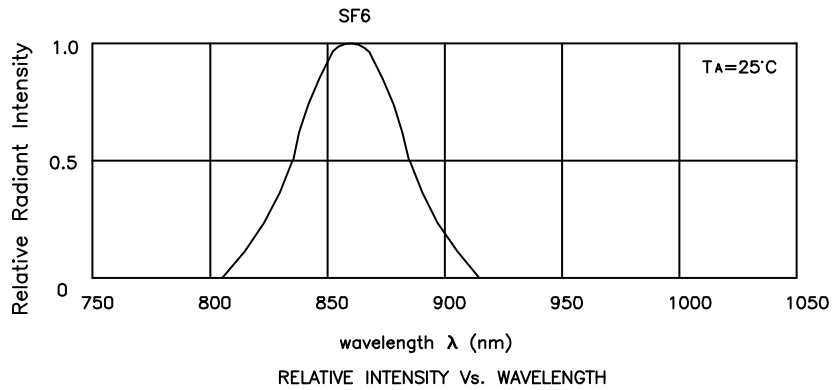
Item	P/N	Symbol	Typ.	Max.	Units	Condition
Forward Voltage	SF6	V <sub>F</sub>	1.35	1.6	V	I <sub>F</sub> =20mA
Reverse Current	SF6	I <sub>R</sub>	-	10	uA	V <sub>R</sub> =5V
Junction Capacitance	SF6	C	30	-	pF	V <sub>F</sub> =0V;f=1MHz
Peak Spectral Wavelength	SF6	$\lambda$ <sub>P</sub>	860	-	nm	I <sub>F</sub> =20mA
Spectral Bandwidth	SF6	$\Delta\lambda$ 1/2	50	-	nm	I <sub>F</sub> =20mA

## Absolute Maximum Ratings at T<sub>A</sub>=25°C

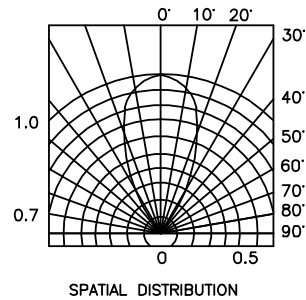
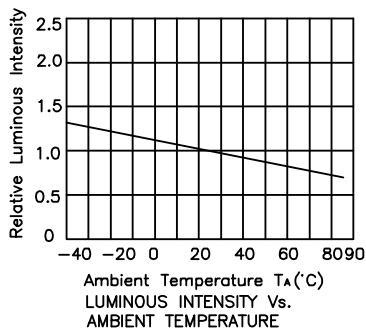
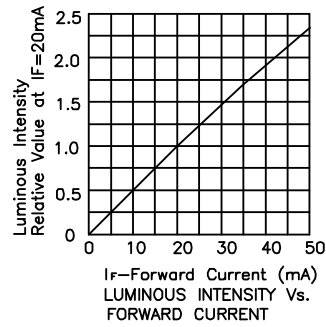
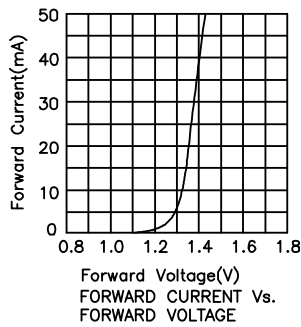
Item	Symbol	SF6	Units
Power dissipation	P <sub>T</sub>	100	mW
Forward Current	I <sub>F</sub>	50	mA
Peak Forward Current [1]	i <sub>FS</sub>	1	A
Reverse Voltage	V <sub>R</sub>	5	V
Operating Temperature	T <sub>opr</sub>	-40°C To +85°C	
Storage Temperature	T <sub>stg</sub>	-40°C To +85°C	
Lead Solder Temperature [2]		260°C For 3 Seconds	
Lead Solder Temperature [3]		260°C For 5 Seconds	

Notes:

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



## L-34SF6BT



**Remarks:**

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

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

Note: Accuracy may depend on the sorting parameters.