

P/N: L-53SF4BT

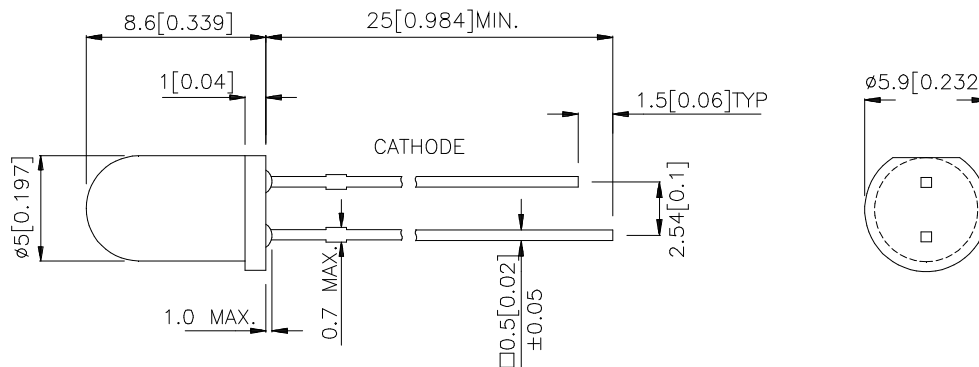
Features

- MECHANICALLY AND SPECTRALLY MATCHED TO THE L-53P3C 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 ± 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) [2] @ 20mA *50mA[3]		Viewing Angle [1]
			Min.	Typ.	2θ1/2
L-53SF4BT	GaAIAs	BLUE TRANSPARENT	4	20	30°
			*7	*30	30°

Notes:

- 1.θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. Radiant Intensity/ luminous flux: +/-15%.
- 3.* 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 [1]	SF4	V _F	1.3	1.6	V	I _F =20mA
Reverse Current	SF4	I _R	-	10	uA	V _R =5V
Capacitance	SF4	C	90	-	pF	V _F =0V;f=1MHz
Peak Spectral Wavelength	SF4	λ _P	880	-	nm	I _F =20mA
Spectral Bandwidth	SF4	Δλ _{1/2}	50	-	nm	I _F =20mA

Note:

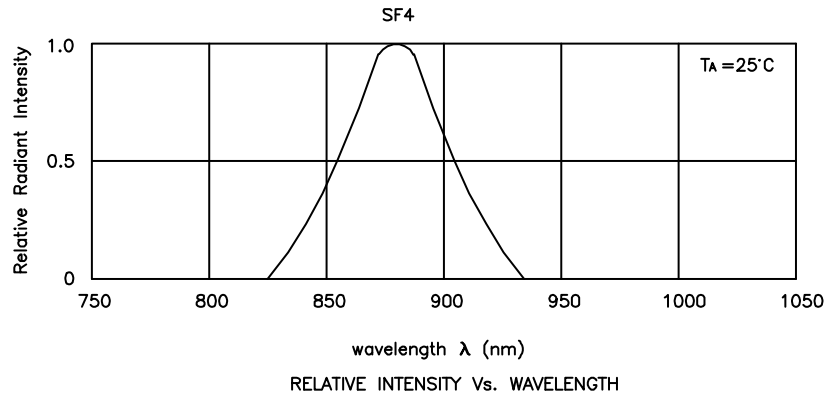
1. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Parameter	Symbol	SF4	Units
Power Dissipation	P _T	100	mW
DC Forward Current	I _F	50	mA
Peak Forward Current[1]	i _{FS}	1.2	A
Reverse Voltage	V _R	5	V
Operating Temperature	T _A	-40 To +85	°C
Storage Temperature	T _{STG}	-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, 10ms Pulse Width.
2. 2mm below package base.
3. 5mm below package base.



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