

P/N: L-53F3C

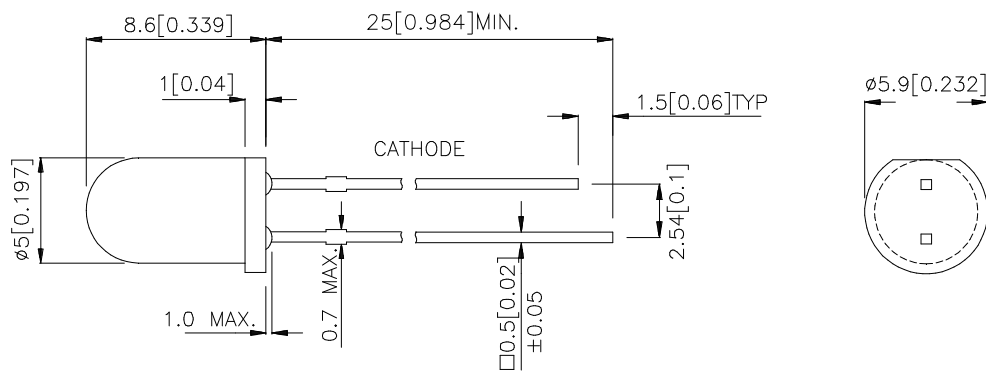
### Features

- MECHANICALLY AND SPECTRALLY MATCHED TO THE L-53P3C PHOTOTRANSISTOR.
- WATER CLEAR LENS .
- RoHS COMPLIANT.

### Description

F3 Made with Gallium 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) [2] @ 20mA *50mA[3]		Viewing Angle [1]
			Min.	Typ.	2θ1/2
L-53F3C	GaAs	WATER CLEAR	7	20	30°
			*10	*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]	F3	V <sub>F</sub>	1.2	1.6	V	I <sub>F</sub> =20mA
Reverse Current	F3	I <sub>R</sub>	-	10	uA	V <sub>R</sub> =5V
Capacitance	F3	C	90	-	pF	V <sub>F</sub> =0V;f=1MHz
Peak Spectral Wavelength	F3	λ <sub>P</sub>	940	-	nm	I <sub>F</sub> =20mA
Spectral Bandwidth	F3	Δλ <sub>1/2</sub>	50	-	nm	I <sub>F</sub> =20mA

Note:

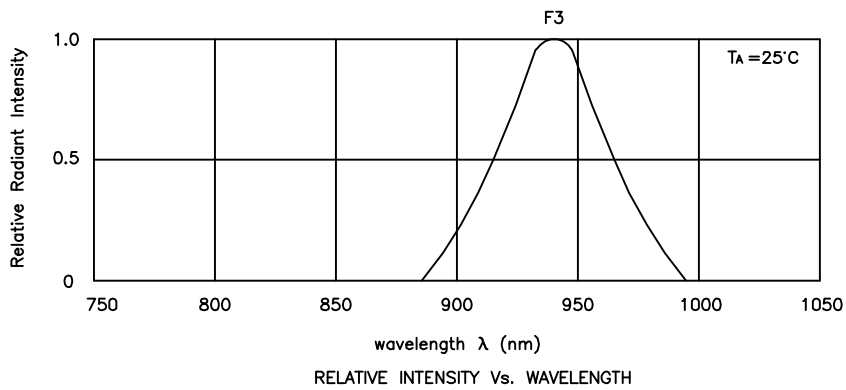
1. Forward Voltage: +/-0.1V.

## Absolute Maximum Ratings at TA=25°C

Parameter	Symbol	F3	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, 10ms Pulse Width.
2. 2mm below package base.
3. 5mm below package base.



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