

T-1 3/4 (5mm) INFRA-RED EMITTING DIODE

L-7113F3BT

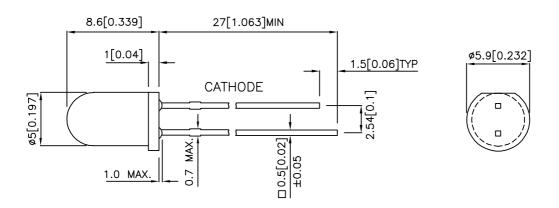
Features

- MECHANICALLY AND SPECTRALLY MATCHED TO THE PHOTOTRANSISTOR.
- BLUE TRANSPARENT LENS AVAILABLE HIGH POWER OUTPUT.
- RoHS COMPLIANT.

Description

F3 Made with Gallium Arsenide Infrared Emitting diodes.

Package Dimensions



Notes:

- 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.

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APPROVED: J. Lu CHECKED: Allen Liu DRAWN: W.J.ZHU

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Selection Guide

Part No.	Part No. Dice Lens Type	Po (mW/sr) @ 20mA*50mA		Viewing Angle	
		,,	Min.	Тур.	201/2
L-7113F3BT	GaAs	BLUE TRANSPARENT	4	20	20°
		BLOC TRANSPARENT	*7	*30	

Notes:

- 1.01/2 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	Тур.	Max.	Units	Test Conditions
Forward Voltage	F3	VF	1.2	1.6	V	IF=20mA
Reverse Current	F3	lr	-	10	uA	VR=5V
Capacitance	F3	С	90	-	pF	VF=0V;f=1MHz
Peak Spectral Wavelength	F3	λΡ	940	-	nm	IF=20mA
Spectral Bandwidth	F3	Δλ1/2	50	-	nm	IF=20mA

Absolute Maximum Ratings at Ta=25°C

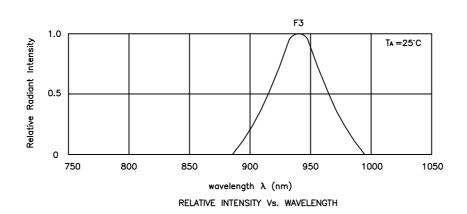
Parameter	Symbol	F3	Units		
Power Dissipation	Рт	100	mW		
DC Forward Current	lF	lf 50			
Peak Forward Current[1]	iFS	1.2	A		
Reverse Voltage	VR	5	V		
Operating Temperature	Та	-40 To +85	°C		
Storage Temperature	Тѕтс	-40 To +85	°C		
Lead Solder Temperature [2]	260°C For 3 Seconds				
Lead Solder Temperature [3]	260°C For 5 Seconds				

Notes:

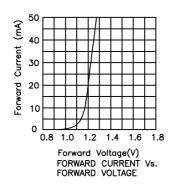
- 1. 1/100 Duty Cycle, 10us Pulse Width.
- 2. 2mm below package base.
- 3. 5mm below package base.

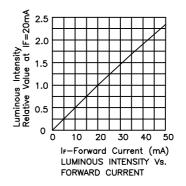
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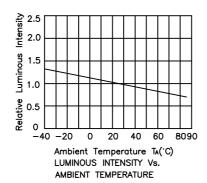
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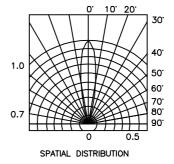


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Remarks:

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.

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