

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

**Features** 

•MECHANICALLY AND SPECTRALLY MATCHED TO THE L51P3C PHOTOTRANSISTOR.

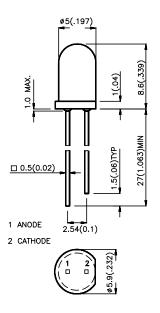
•BLUE TRANSPARENT LENS AVAILABLE HIGH POWER OUTPUT.

L53F3BT

**Package Dimensions** 

## **Description**

F3 Made with Gallium Arsenide Infrared Emitting diodes.



#### 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 lead emerge package.
- 4. Specifications are subjected to change without notice.

#### **Selection Guide**

Part No.	Dice	Lens Type	<b>lv (mW/sr)</b> @20mA		lv (mW/sr) @50mA		<b>Viewing</b> Angle
			Min.	Тур.	Min.	Тур.	201/2
L53F3BT	GaAs	Blue Transparent	5	20	8	30	30°

#### Note:

1.  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.



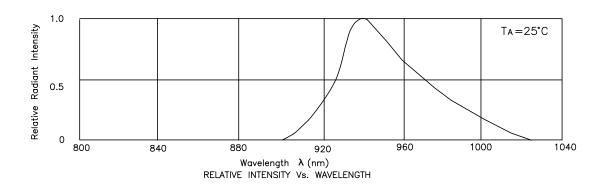
## Electrical / Optical Characteristics at T<sub>A</sub>=25°C

Item	P/N	Symbol	Тур.	Max.	Unit	Condition
Forward Voltage	F3	VF	1.2	1.5	V	IF=20mA
Reverse Current	F3	IR	-	10	uA	VR=5V
Junction Capacitance	F3	Co	90	-	pF	V=0 f=1MHz
Peak Spectral Wavelength	F3	IR	940	-	nm	IF=20mA
Spectral Bandwidth	F3	Δλ	50	-	nm	IF=20mA

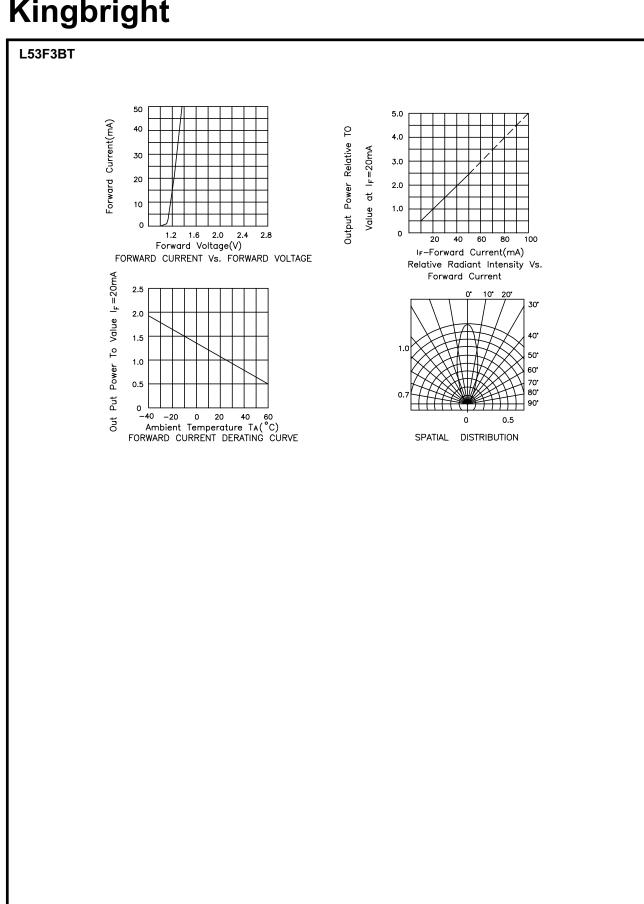
# Absolute Maximum Ratings at T<sub>A</sub>=25°C

ltem	Symbol	Maximum Rating	Units
Power Dissipation	Pd	100	mW
Forward Current	IF	50	mA
Peak Forward Current	I <sub>P</sub>	1.2	А
Reverse Voltage	VR	5	V
Operating Temperature	Topr	-45~ +80	°C
Storage Temperature	Tstg	-45~ +80	°C

- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
  2. 4mm below package base.



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