

AM4457F3C

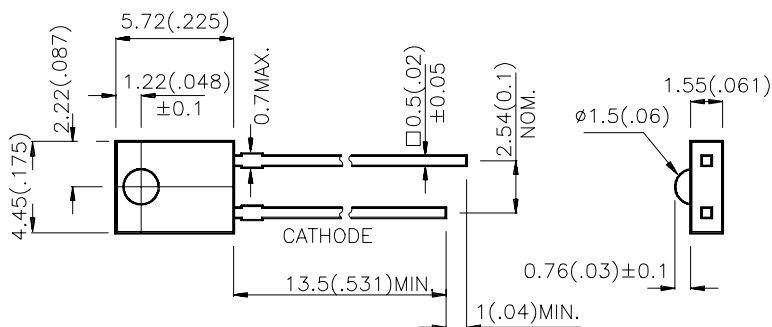
### Features

- MECHANICALLY AND SPECTRALLY MATCHED TO THE L-610MP4BT/BD PHOTOTRANSISTOR.
- BOTH WATER CLEAR LENS AND BLUE TRANSPARENT LENS AVAILABLE
- HIGH POWER OUTPUT.

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

## Selection Guide

Part No.	Dice	Lens Type	Po (mW/sr) @20mA		Viewing Angle
			Min.	Typ.	2θ1/2
AM4457F3C	GaAs	WATER CLEAR	1.2	3	150°

Note:

1. θ1/2 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

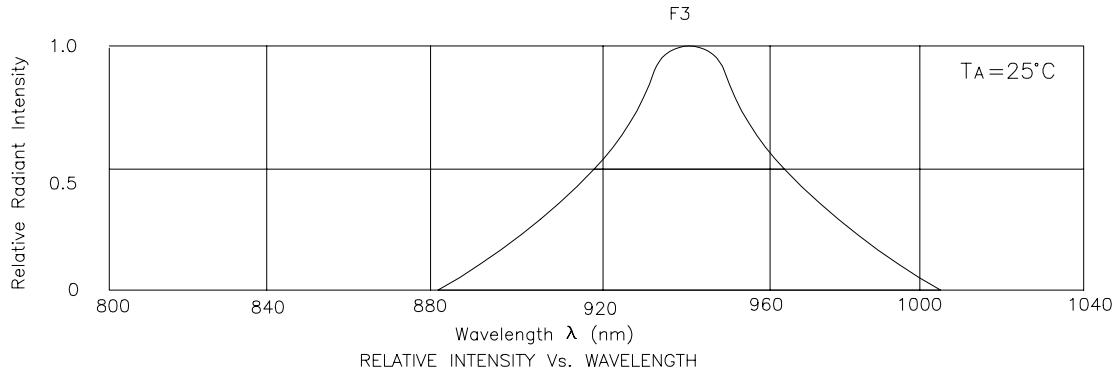
Item	P/N	Symbol	Typ.	Max.	Unit	Condition
Forward Voltage	F3	V <sub>F</sub>	1.2	1.5	V	IF=20mA
Reverse Current	F3	I <sub>R</sub>	-	10	uA	VR=5V
Junction Capacitance	F3	C	90	-	pF	V=0 f=1MHz
Peak Spectral Wavelength	F3	λ <sub>P</sub>	940	-	nm	IF=20mA
Spectral Bandwidth	F3	Δλ	50	-	nm	IF=20mA

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

Item	Symbol	Maximum Rating	Units
Power Dissipation	P <sub>T</sub>	100	mW
Forward Current	I <sub>F</sub>	50	mA
Peak Forward Current	i <sub>FS</sub>	1.2	A
Reverse Voltage	V <sub>R</sub>	5	V
Operating Temperature	T <sub>A</sub>	-40~ +85	°C
Storage Temperature	T <sub>STG</sub>	-40~ +85	°C

Notes:

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



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