

1.5mm SIDE LOOK INFRARED EMITTING DI-ODE

Part Number: AM4457F3C

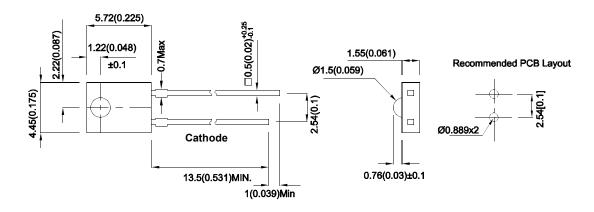
Features

- Side looking package.
- Mechanically and spectrally matched to the phototransistor.
- RoHS compliant.

Description

F3 Made with Gallium Arsenide Infrared Emitting diodes.

Package Dimensions



REMARK :The IR LED can be driven at 100mA, with at a max pulse width of 20ms,The maximum duty cycle is 20%.

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
- Lead spacing is measured where the leads emerge from the package.
 The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

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Selection Guide

Part No.	Emitting Color (Material)	Lens Type	Po (mW/sr) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
AM4457F3C	Infrared(GaAs)	Matan Class	3	7	70°
		Water Clear	*2	*5	

Notes:

- 1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
 2. Radiant Intensity / luminous flux: +/-15%.
 * Radiant intensity value is traceable to CIE127-2007 standards.

Electrical / Optical Characteristics at TA=25°C

Parameter	P/N	Symbol	Тур.	Max.	Units	Test Conditions	
Forward Voltage [1]	F3	VF	1.2	1.6	V	IF=20mA	
Reverse Current	F3	lr		10	uA	V _R = 5V	
Capacitance	F3	С	90		pF	VF=0V;f=1MHz	
Peak Spectral Wavelength	F3	λP	940		nm	IF=20mA	
Spectral Bandwidth	F3	Δλ1/2	50		nm	IF=20mA	

- 1. Forward Voltage: +/-0.1V.
- 2. Wavelength value is traceable to CIE127-2007 standards.
- 3. Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

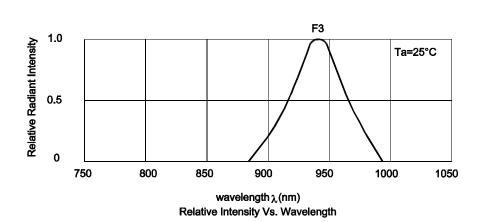
Parameter	Symbol	Values	Units	
Power dissipation	Pb	80	mW	
DC Forward Current	lF	50	mA	
Peak Forward Current [1]	iFS	1.2	А	
Reverse Voltage	VR	5	V	
Operating Temperature	Та	-40 To +85	°C	
Storage Temperature	Тѕтс	-40 To +85	°C	
Lead Solder Temperature [2]	d Solder Temperature [2] 260°C For 3 Seconds		S	
Lead Solder Temperature [3]		260°C For 5 Seconds		

Notes:

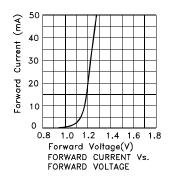
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 2mm below package base.
- 3. 5mm below package base.
- Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

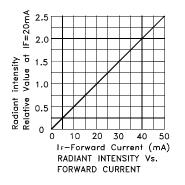
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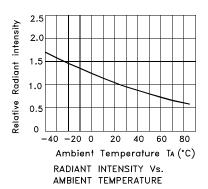
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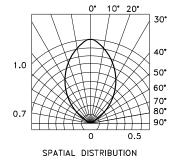


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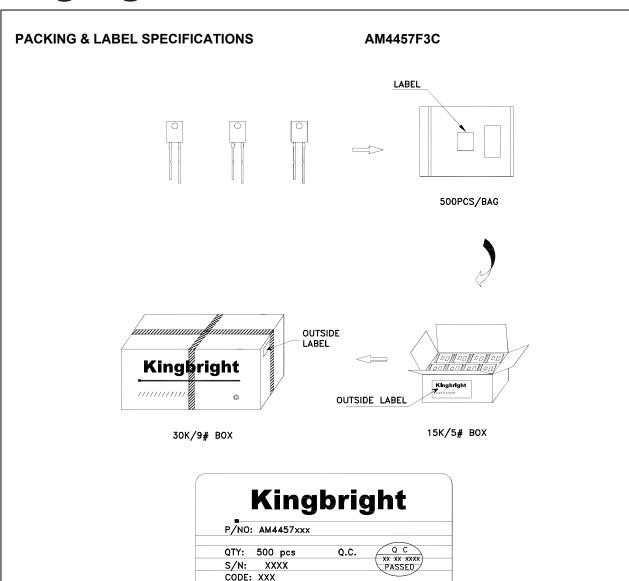






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LOT NO:

1. The information included in this document reflects representative usage scenarios and is intended for technical reference only.

RoHS Compliant

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