

PRELIMINARY SPEC

Part Number: L-424F3C

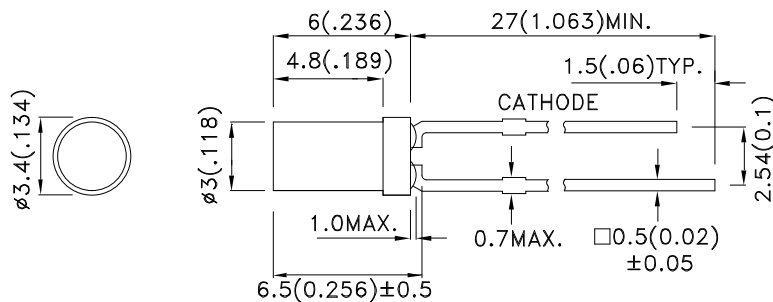
### Features

- Mechanically and spectrally matched to the phototransistor.
- 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		Viewing Angle [1]
			Min.	Typ.	2θ1/2
L-424F3C	F3 (GaAs)	WATER CLEAR	2.6	9	90°

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%.

## Electrical / Optical Characteristics at TA=25°C

Parameter	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	μA	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	Δλ1/2	50		nm	I <sub>F</sub> =20mA

Note:

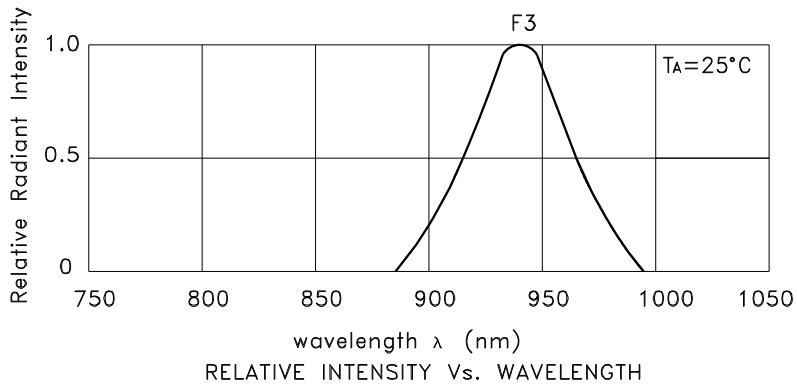
1. Forward Voltage: +/-0.1V.

## Absolute Maximum Ratings at TA=25°C

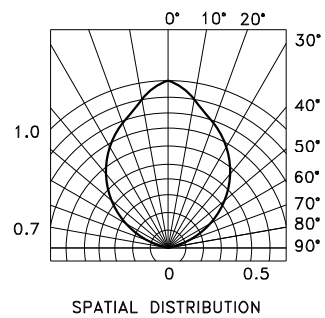
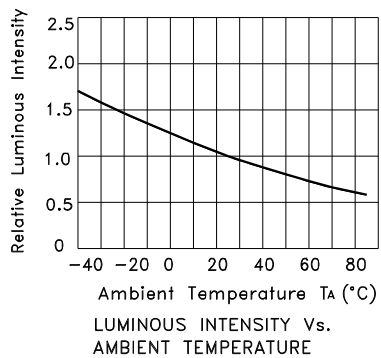
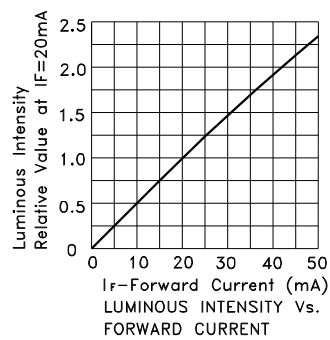
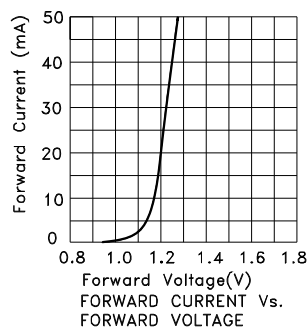
Parameter	Symbol	F3	Units
Power dissipation	P <sub>T</sub>	80	mW
DC Forward Current	I <sub>F</sub>	50	mA
Peak Forward Current [1]	i <sub>FS</sub>	1.2	A
Reverse Voltage	V <sub>R</sub>	5	V
Operating Temperature	T <sub>A</sub>	-40 To +85	°C
Storage Temperature	T <sub>STG</sub>	-40 To +85	°C
Lead Solder Temperature [2]		260°C For 3 Seconds	
Lead Solder Temperature [3]		260°C For 5 Seconds	

Notes:

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



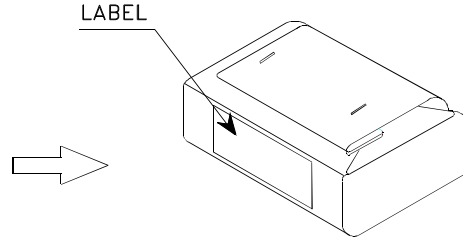
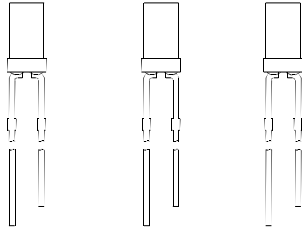
## L-424F3C



# Kingbright

## PACKING & LABEL SPECIFICATIONS

L-424F3C

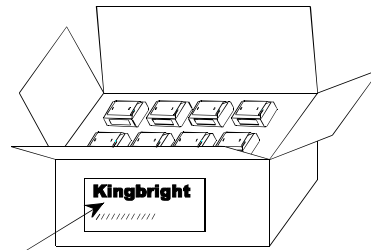
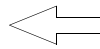


1,000PCS / BAG




48K / 9# BOX

OUTSIDE LABEL



OUTSIDE LABEL

24K / 5# BOX

<h1>Kingbright</h1>	
P/NO: L-424xxx	
QTY: 1,000 pcs	Q.C. <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">Q C XX XX XXXX PASSED</span>
S/N: XXXX	
CODE: XXX	
LOT NO:	
 xxxxxxxxxxxxxxxxxxxxxxxx	
RoHS Compliant	