

Kingbright

T-1 (3mm) INFRA-RED EMITTING DIODE

WP34F3C

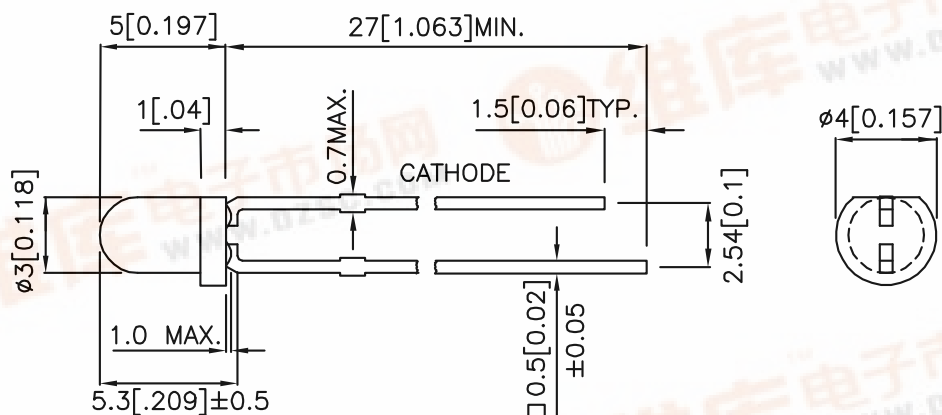
Features

- MECHANICALLY AND SPECTRALLY MATCHED TO THE WP32P3C PHOTOTRANSISTOR.
- WATER CLEAR LENS.
- 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) @20mA*50mA		Viewing Angle
			Min.	Typ.	2θ1/2
WP34F3C	GaAs	WATER CLEAR	1.6	10	50°
			*4	*20	

Notes:

1. $\theta_{1/2}$ 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 T_A=25°C

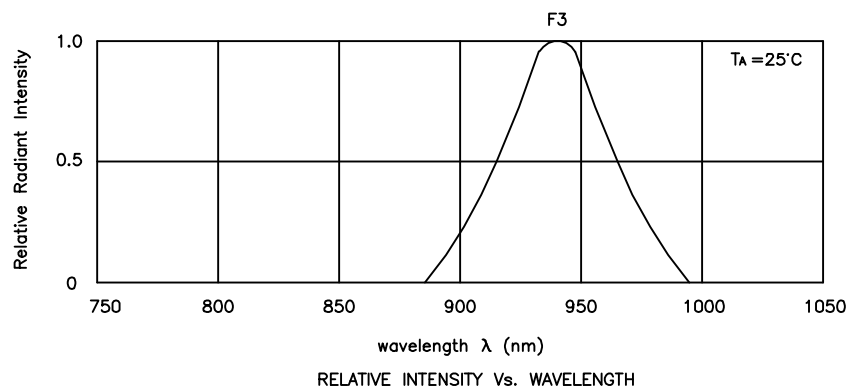
Item	P/N	Symbol	Typ.	Max.	Units	Test Conditions
Forward Voltage	F3	V _F	1.2	1.6	V	I _F =20mA
Reverse Current	F3	I _R	-	10	uA	V _R =5V
Capacitance	F3	C	90	-	pF	V _F =0V;f=1MHz
Peak Spectral Wavelength	F3	λ _P	940	-	nm	I _F =20mA
Spectral Bandwidth	F3	Δλ _{1/2}	50	-	nm	I _F =20mA

Absolute Maximum Ratings at T_A=25°C

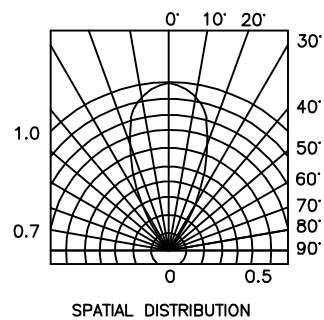
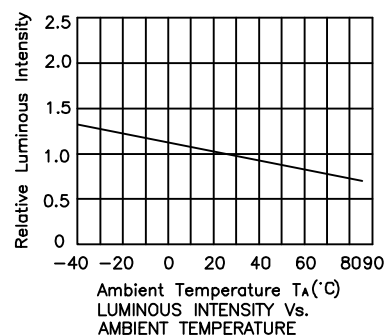
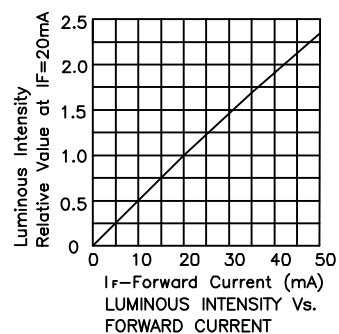
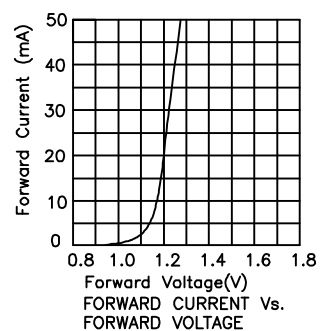
Parameter	Symbol	F3	Units
Power Dissipation	P _T	100	mW
DC Forward Current	I _F	50	mA
Peak Forward Current[1]	i _{FS}	1.2	A
Reverse Voltage	V _R	5	V
Operating Temperature	T _A	-40 To +85	°C
Storage Temperature	T _{STG}	-40 To +85	°C
Lead Solder Temperature [2]	260°C For 3 Seconds		
Lead Solder Temperature [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.

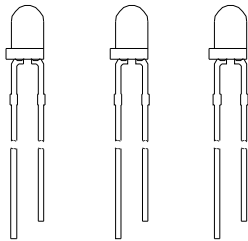


WP34F3C

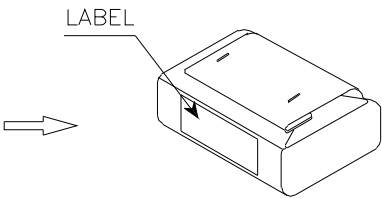


PACKING & LABEL SPECIFICATIONS

WP34F3C



P/N: WP34XXX

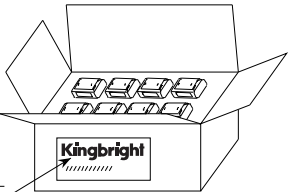


1,000PCS / BAG



56K / 9# BOX

OUTSIDE LABEL



OUTSIDE LABEL

28K / 5# BOX

Kingbright	
Q.C.	
TYPE NO : WP34XXX	QC xxx xx xxx PASSED
QUANTITY : 1,000 pcs	Date
S/N : XXX	CODE: XX
LOT NO : 	RoHS Compliant

Remarks:

If special sorting is required (e.g. binning based on forward voltage or radiant intensity), the typical accuracy of the sorting process is as follows:

1. Radiant Intensity: +/-15%
2. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.