

Kingbright

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

PRELIMINARY SPEC

WP7104F3BT

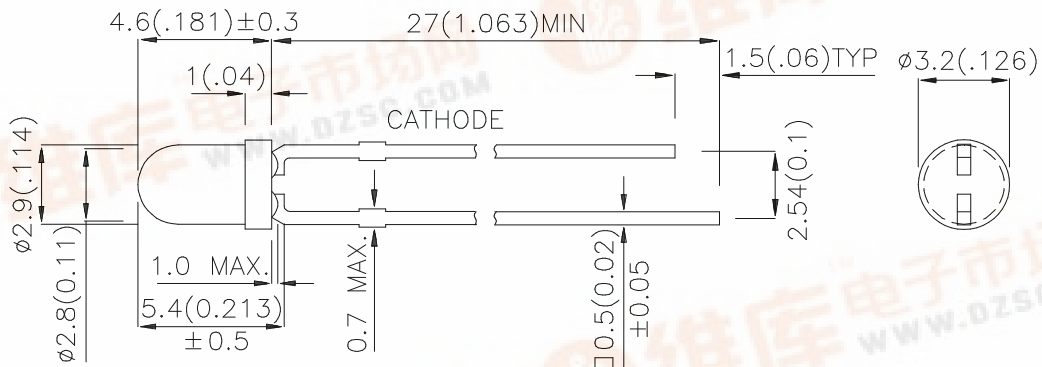
Features

- MECHANICALLY AND SPECTRALLY MATCHED TO THE PHOTOTRANSISTOR.
- BLUE TRANSPARENT LENS.
- RoHS COMPLIANT.

Description

F3 Made 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.



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Selection Guide

Part No.	Dice	Lens Type	Po (mW/sr) @ 20mA *50mA		Viewing Angle
			Min.	Typ.	θ1/2
WP7104F3BT	GaAs	BLUE TRANSPARENT	7	28	34°
			*18	*70	34°

Notes:

1. θ1/2 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 TA=25°C

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

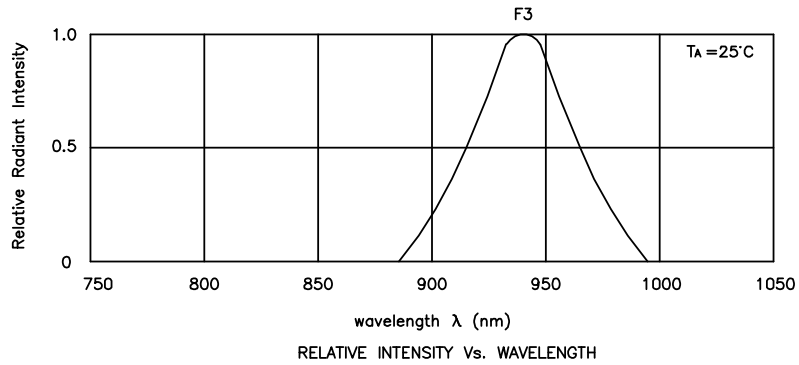
Absolute Maximum Ratings at TA=25°C

Parameter	Symbol	F3	Units
Power Dissipation	PT	100	mW
DC Forward Current	IF	50	mA
Peak Forward Current[1]	iFS	1.2	A
Reverse Voltage	VR	5	V
Operating Temperature	TA	-40 To +85	°C
Storage Temperature	TSTG	-40 To +85	°C
Lead Solder Temperature [2]	260°C For 3 Seconds		
Lead Solder Temperature [3]	260°C For 5 Seconds		

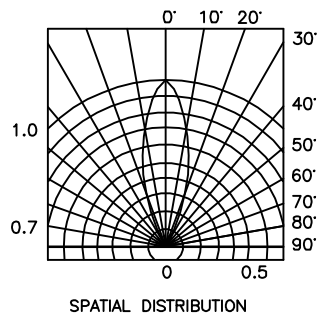
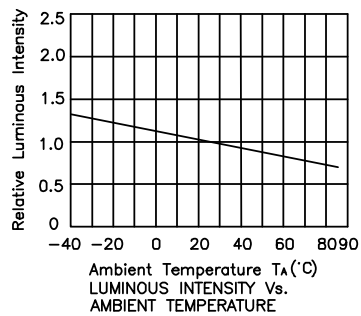
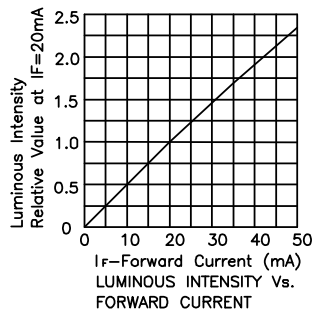
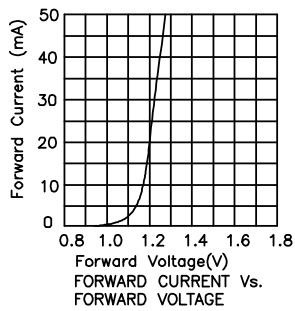
Notes:

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

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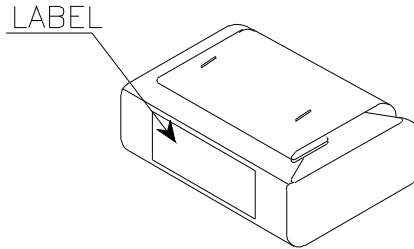
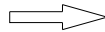
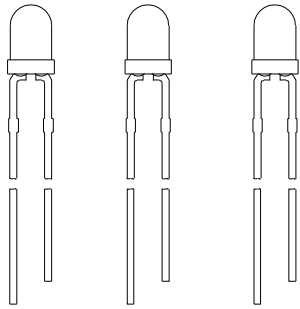
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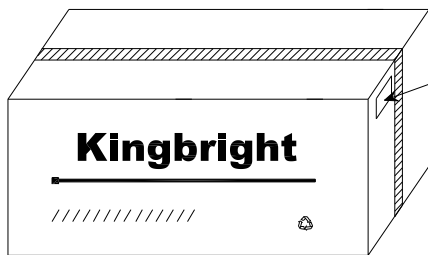
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PACKING & LABEL SPECIFICATIONS

WP7104F3BT

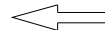


1,000PCS / BAG

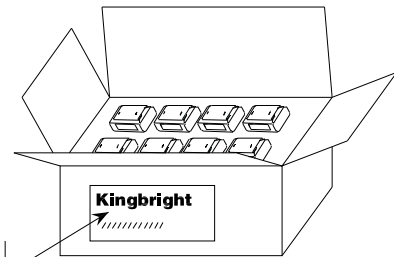


56K / 9# BOX


OUTSIDE LABEL



OUTSIDE LABEL



28K / 5# BOX

Kingbright	
Q.C.	QC xxx xx. 2005 PASSED
TYPE NO : WP7104F3BT	
QUANTITY : 1,000 pcs	
S/N : XXX	CODE: XX
LOT NO:  xxxxxxxx	
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.