imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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T-1 3/4 (5mm) INFRARED EMITTING DIODE

Part Number: WP7113F3C

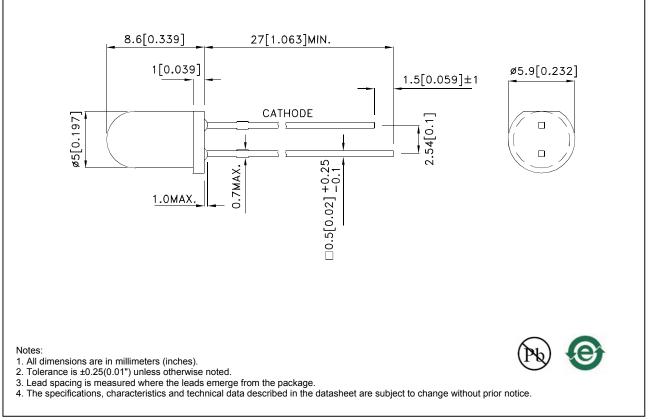
Features

- Mechanically and spectrally matched to the phototransistor.
- RoHS compliant.

Description

F3 Made with Gallium Arsenide Infrared Emitting diodes.

Package Dimensions



SPEC NO: DSAF8808 APPROVED: WYNEC REV NO: V.5A CHECKED: Allen Liu DATE: MAR/22/2013 DRAWN: F.Cui PAGE: 1 OF 6 ERP: 1101004993

Selection Guide Part No.	Dice	Lens Type	Po (mW/sr) [2] @ 20mA		Po (mW/sr) [2] @ 50mA		Viewing Angle [1]
			Min.	Тур.	Min.	Тур.	201/2
WP7113F3C F3 (C		Water Clear	15	30	55	100	20°
	I J (Gans)		*8	*20	*25	*50	

Notes:

θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
 Radiant Intensity/ luminous flux: +/-15%.
 *Radiant Intensity value is traceable to the CIE127-2007 compliant national 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	l⊧=20mA
Reverse Current	F3	lr		10	uA	VR = 5V
Capacitance	F3	С	90		pF	VF=0V;f=1MHz
Peak Spectral Wavelength	F3	λP	940		nm	l⊧=20mA
Spectral Bandwidth	F3	Δλ1/2	50		nm	l⊧=20mA

Notes:

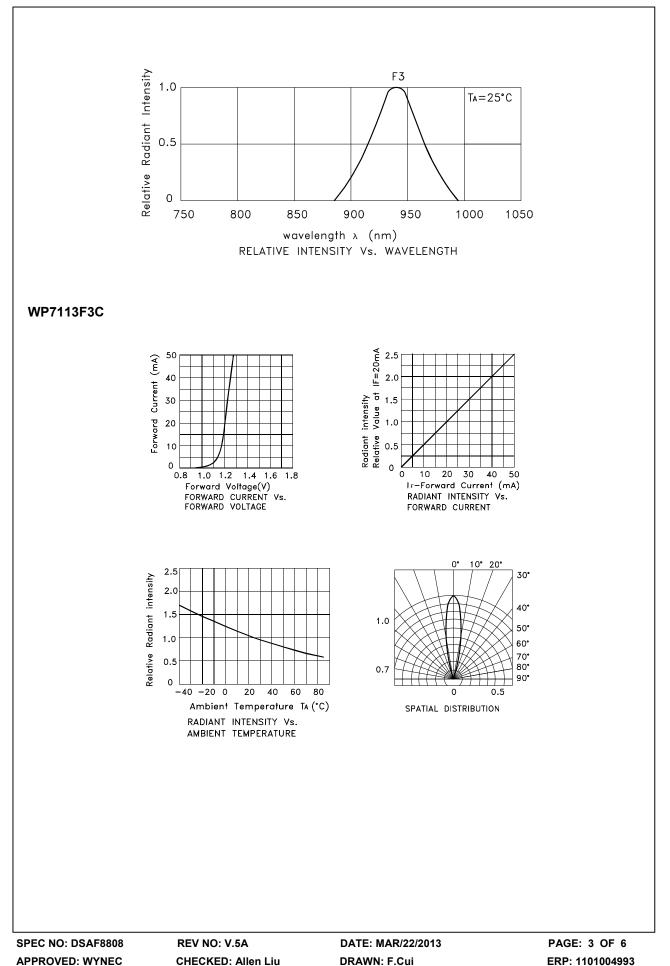
1. Forward Voltage: +/-0.1V.

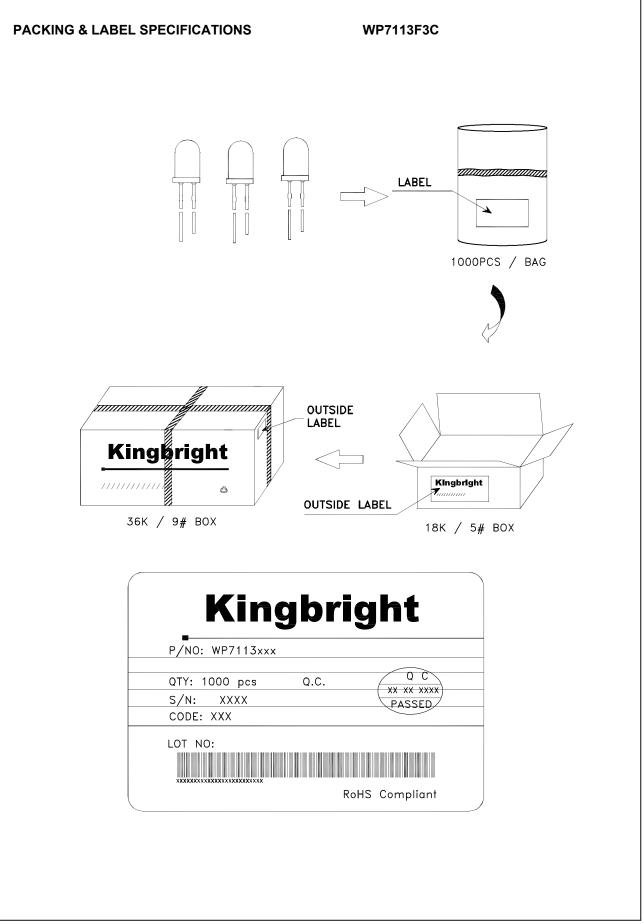
2. Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

Parameter	Symbol	F3	Units		
Power dissipation	Po	80	mW		
DC Forward Current	lF	50	mA		
Peak Forward Current [1]	İFS	1.2	A		
Reverse Voltage	VR	5	V		
Operating Temperature	Та	-40 To +85	°C		
Storage Temperature	Тятс	-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.

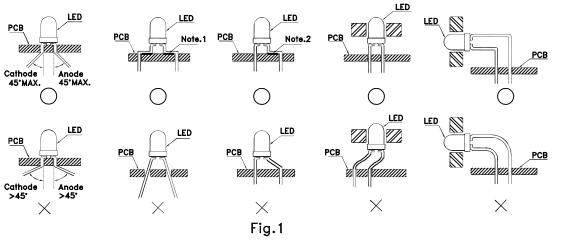




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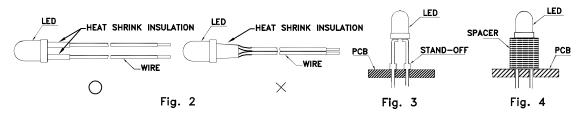
PRECAUTIONS

1. The lead pitch of the LED must match the pitch of the mounting holes on the PCB during component placement. Lead-forming may be required to insure the lead pitch matches the hole pitch. Refer to the figure below for proper lead forming procedures. (Fig. 1)

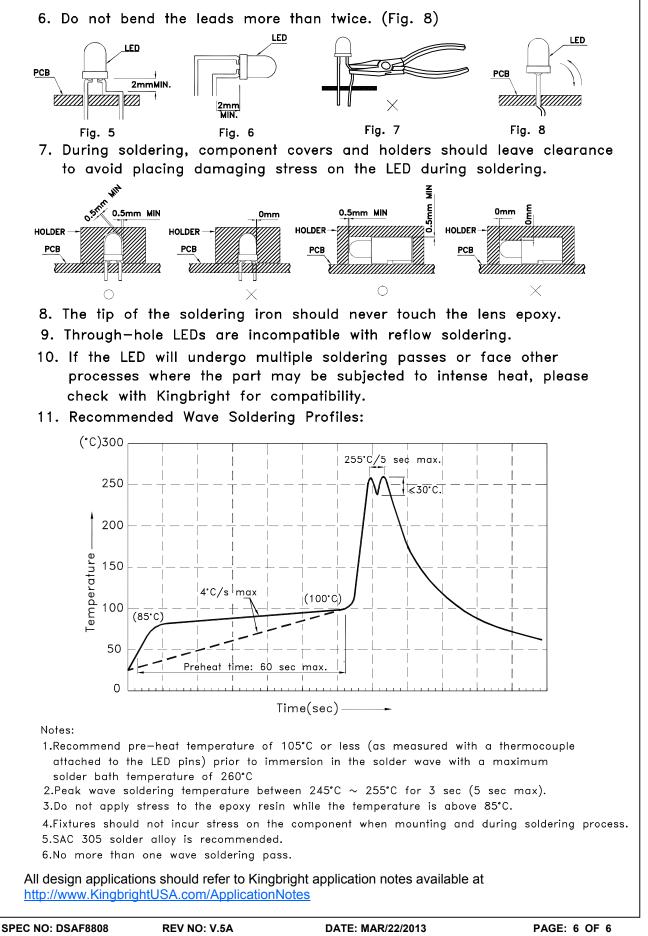


" Correct mounting method "imes" Incorrect mounting method

- 2. When soldering wire to the LED, use individual heat—shrink tubing to insulate the exposed leads to prevent accidental contact short—circuit. (Fig.2)
- 3. Use stand-offs (Fig.3) or spacers (Fig.4) to securely position the LED above the PCB.



- 4. Maintain a minimum of 2mm clearance between the base of the LED lens and the first lead bend. (Fig. 5 and 6)
- 5. During lead forming, use tools or jigs to hold the leads securely so that the bending force will not be transmitted to the LED lens and its internal structures. Do not perform lead forming once the component has been mounted onto the PCB. (Fig. 7)



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