

Kingbright

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

WP7113SF7C

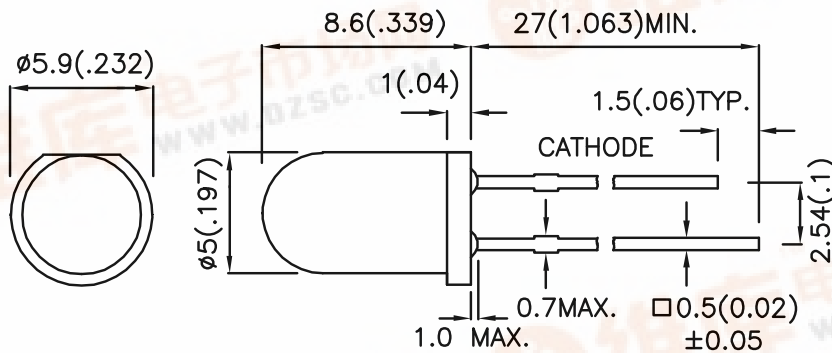
Features

- MECHANICALLY AND SPECTRALLY MATCHED TO THE PHOTOTRANSISTOR.
- WATER CLEAR LENS.
- RoHS COMPLIANT.

Description

SF7 Made with Gallium Aluminum 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
WP7113SF7C	GaAlAs	WATER CLEAR	10	40	20°
			*50	*100	

Notes:

1. θ 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 TA=25°C

Item	P/N	Symbol	Typ.	Max.	Units	Test Conditions
Forward Voltage	SF7	V _F	1.4	1.6	V	I _F =20mA
Reverse Current	SF7	I _R	-	10	uA	V _R =5V
Capacitance	SF7	C	30	-	pF	V _F =0V;f=1MHz
Peak Spectral Wavelength	SF7	λ _P	850	-	nm	I _F =20mA
Spectral Bandwidth	SF7	Δλ _{1/2}	50	-	nm	I _F =20mA

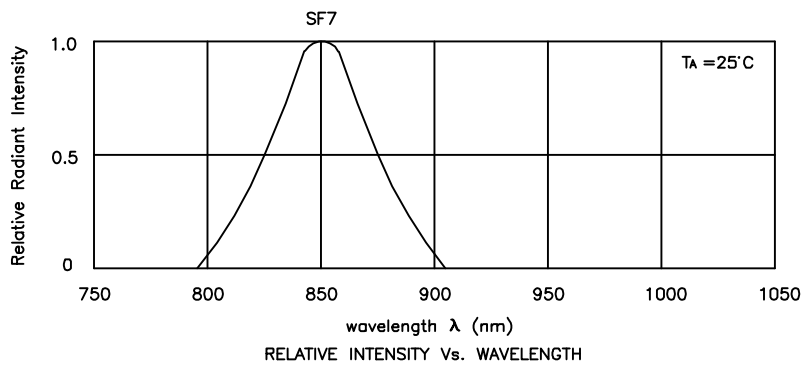
Absolute Maximum Ratings at TA=25°C

Parameter	Symbol	SF7	Units
Power Dissipation	P _T	100	mW
DC Forward Current	I _F	50	mA
Peak Forward Current[1]	i _{FS}	1	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		

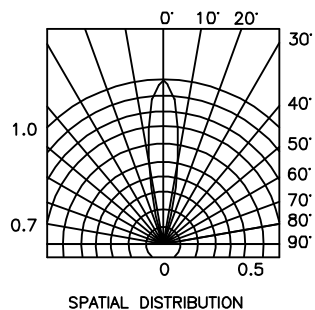
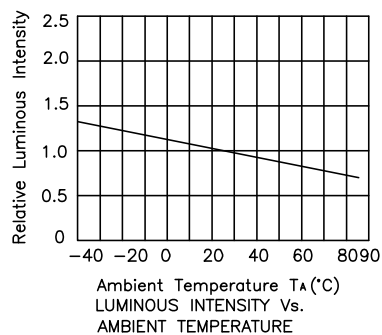
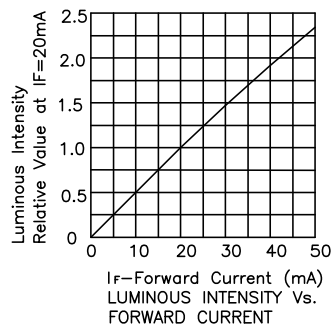
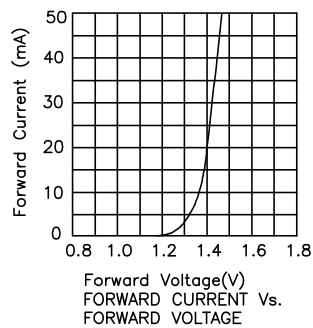
Notes:

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

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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:

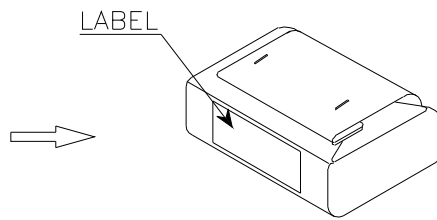
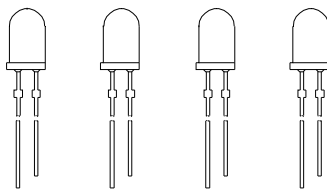
1. Radiant Intensity: +/-15%
2. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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PACKING & LABEL SPECIFICATIONS

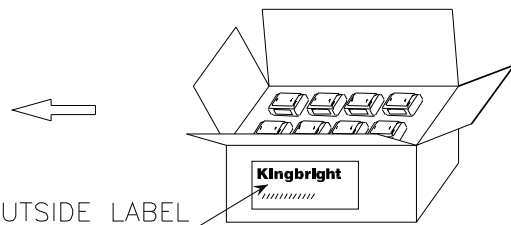
WP7113SF7C




1,000PCS / BAG



36K / 9# BOX



18K / 5# BOX

Kingbright	
Q.C.	QC xxx xx. xxxx PASSED
TYPE NO :	WP7113XXX
QUANTITY :	1,000 pcs
S/N :	xxx
	CODE: xx
LOT NO :	 xxxxxxxxxx
RoHS Compliant	