

WP7113SF7C

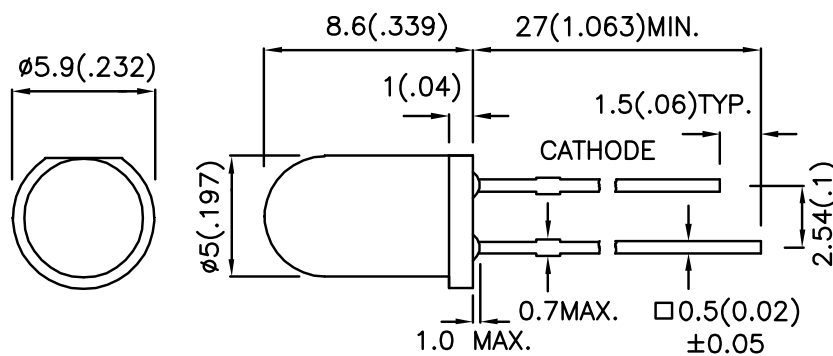
Features

- 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

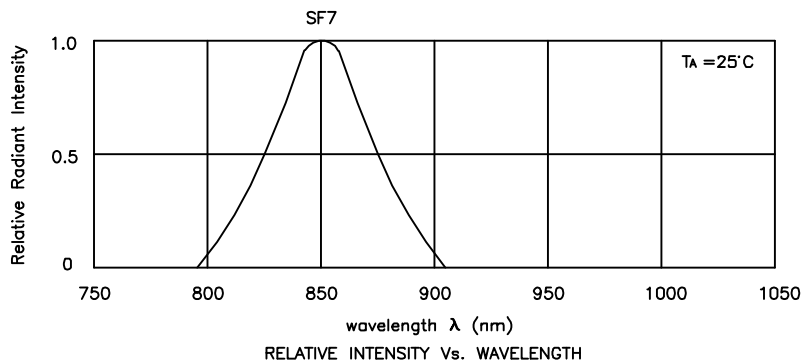
Item	P/N	Symbol	Typ.	Max.	Units	Test Conditions
Forward Voltage	SF7	V_F	1.4	1.6	V	$I_F=20mA$
Reverse Current	SF7	I_R	-	10	uA	$V_R=5V$
Capacitance	SF7	C	30	-	pF	$V_F=0V; f=1MHz$
Peak Spectral Wavelength	SF7	λ_P	850	-	nm	$I_F=20mA$
Spectral Bandwidth	SF7	$\Delta\lambda_{1/2}$	50	-	nm	$I_F=20mA$

Absolute Maximum Ratings at TA=25°C

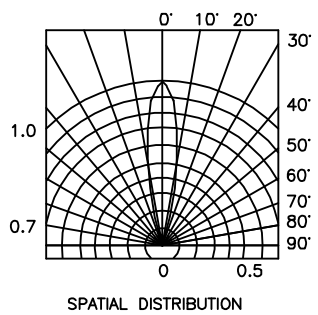
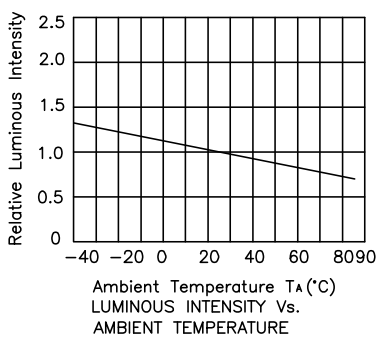
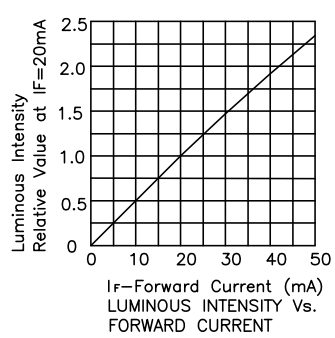
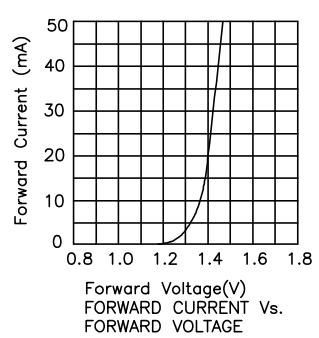
Parameter	Symbol	SF7	Units
Power Dissipation	P_T	100	mW
DC Forward Current	I_F	50	mA
Peak Forward Current[1]	i_{FS}	1	A
Reverse Voltage	V_R	5	V
Operating Temperature	T_A	-40 To +85	°C
Storage Temperature	T_{STG}	-40 To +85	°C
Lead Solder Temperature [2]	260°C For 3 Seconds		
Lead Solder Temperature [3]	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:

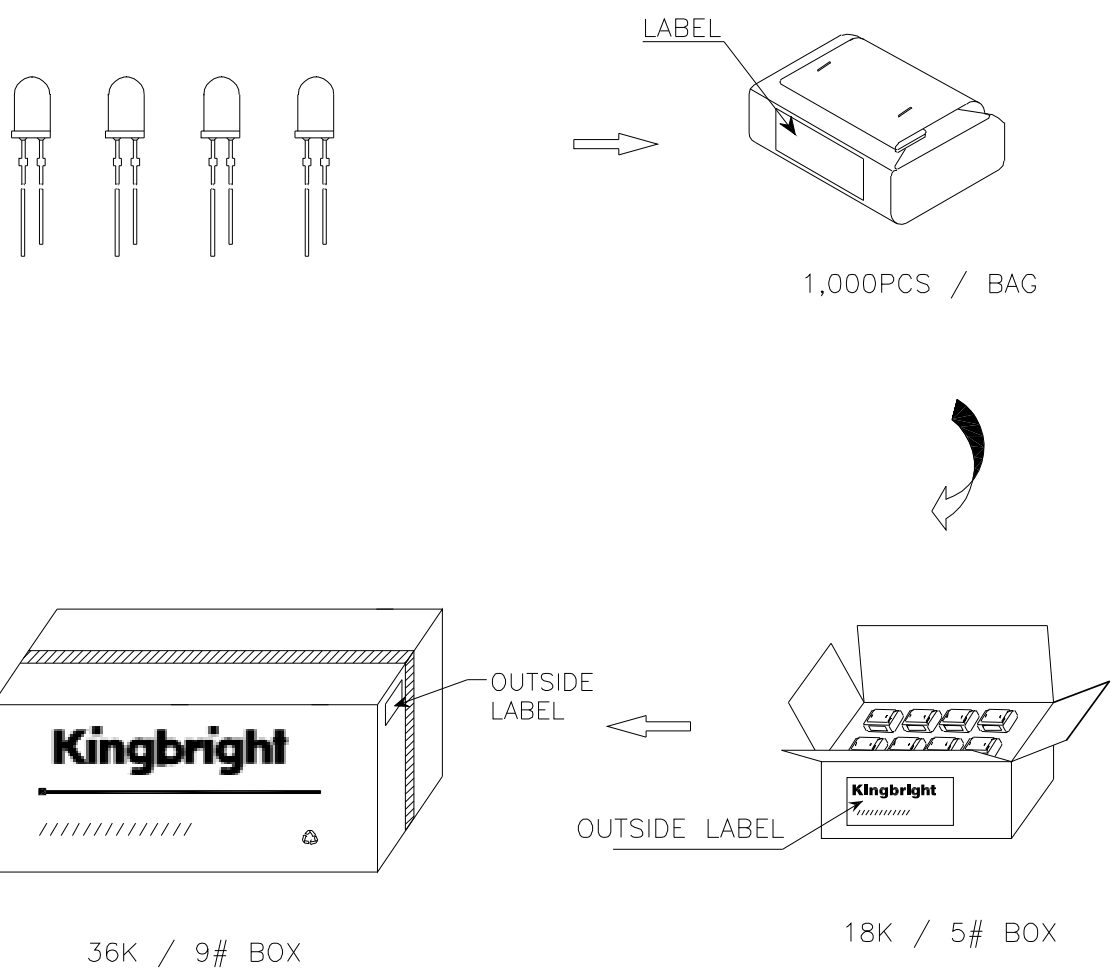
If special sorting is required (e.g. binning based on forward voltage or radiant intensity), the typical accuracy of the sorting process is as follows:

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

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS

WP7113SF7C



Kingbright	
Q.C.	
TYPE NO : WP7113XXX	
QUANTITY : 1,000 pcs	
S/N : XXX	CODE: XX
LOT NO : 	
RoHS Compliant	