

L53SF6C	L53SF6BT
L53SF7C	L53SF7BT

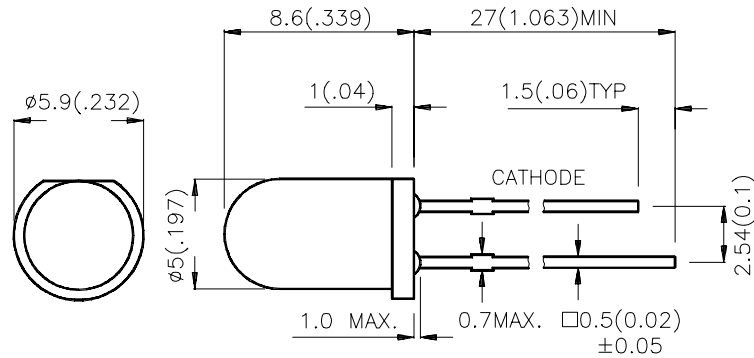
Features

- MECHANICALLY AND SPECTRALLY MATCHED TO THE L-51P3C PHOTOTRANSISTOR.
- BOTH WATER CLEAR LENS AND BLUE TRANSPARENT LENS AVAILABLE HIGH POWER OUTPUT.

Description

SF6 and 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 lead emerge package.
4. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Po (mW/sr) @20mA		Po (mW/sr) @50mA		Viewing Angle
			Min.	Typ.	Min.	Typ.	2θ1/2
L53SF6C	GaAlAs	WATER CLEAR	10	40	50	100	30°
L53SF6BT	GaAlAs	BLUE TRANSPARENT	10	40	50	100	30°
L53SF7C	GaAlAs	WATER CLEAR	10	40	50	100	30°
L53SF7BT	GaAlAs	BLUE TRANSPARENT	10	40	50	100	30°

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at T_A=25°C

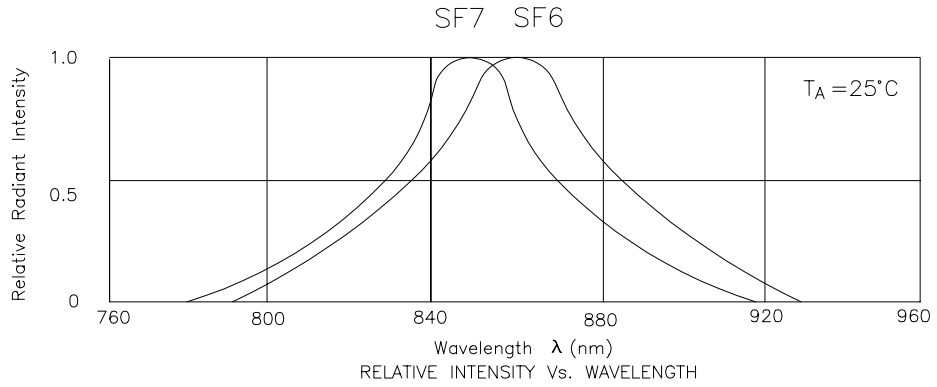
Item	P/N	Symbol	Typ.	Max.	Unit	Condition
Forward Voltage	SF6 SF7	V _F	1.35 1.4	1.6 1.8	V	IF=20mA
Reverse Current	SF6 SF7	I _R	-	10 10	uA	VR=5V
Junction Capacitance	SF6 SF7	C	30 30	-	pF	V=0 f=1MHz
Peak Spectral Wavelength	SF6 SF7	λ _P	860 850	-	nm	IF=20mA
Spectral Bandwidth	SF6 SF7	Δλ	50 41	-	nm	IF=20mA

Absolute Maximum Ratings at T_A=25°C

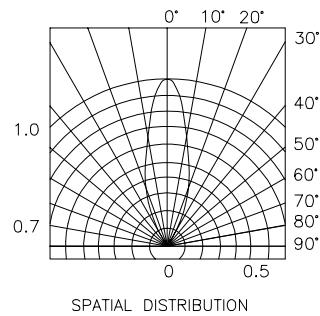
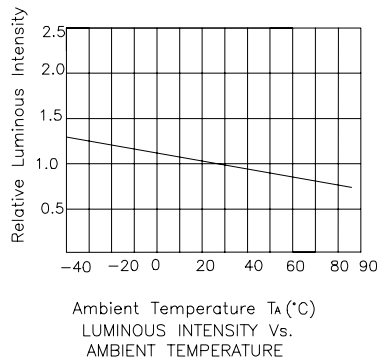
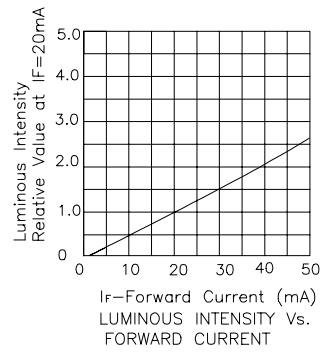
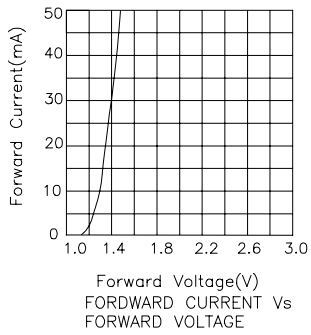
Item	Symbol	SF6&SF7	Units
Power Dissipation	P _t	100	mW
Forward Current	I _F	50	mA
Peak Forward Current[1]	I _P	1	A
Reverse Voltage	V _R	5	V
Operating Temperature	T _A	-40~ +85	°C
Storage Temperature	T _{stg}	-40~ +85	°C

Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.



L53SF6C, L53SF6BT



L53SF7C, L53SF7BT

