

Kingbright®

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

L53SF5C

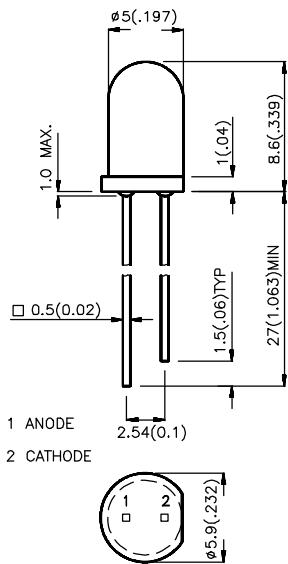
Features

- MECHANICALLY AND SPECTRALLY MATCHED TO THE L51P3C PHOTOTRANSISTOR.
- BOTH WATER CLEAR LENS AND BLUE TRANSPARENT LENS AVAILABLE HIGH POWER OUTPUT.

Description

SF5 Made with Gallium Aluminum Arsenide 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 emerges from the package.
4. Specifications are subjected to change without notice.

Selection Guide

Part No.	Lens Type	Iv (mW/sr) @20mA		Iv (mW/sr) @50mA		Viewing Angle 2θ/2
		Min.	Max.	Min.	Max.	
L53SF5C	Water Clear	8	40	12.5	40	30°

Note:

1. $\theta/2$ is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

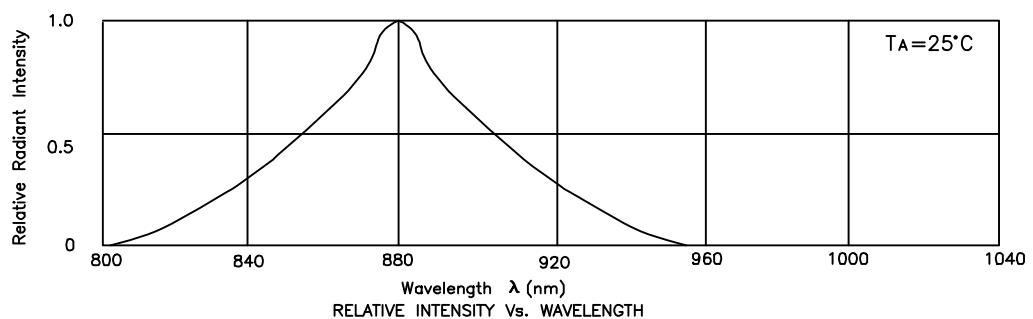
Electrical / Optical Characteristics at $T_A=25^\circ C$

Item	P/N	Symbol	Typ.	Max.	Unit	Condition
Forward Voltage	L-53SF5C	VF	1.4	1.7	V	IF=20mA
Reverse Current	L-53SF5C	IR	-	10	uA	VR=5V
Junction Capacitance	L-53SF5C	Co	90	-	pF	V=0 f=1MHz
Peak Spectral Wavelength	L-53SF5C	IR	880	-	nm	IF=20mA
Spectral Bandwidth	L-53SF5C	DI	50	-	nm	IF=20mA

Absolute Maximum Ratings at $T_A=25^\circ C$

Item	Symbol	Maximum Rating	Units
Power Dissipation	Pd	100	mW
Forward Current	IF	50	mA
Peak Forward Current	Ip	1.2	A
Reverse Voltage	VR	5	V
Operating Temperature	Topr	-45~ +80	°C
Storage Temperature	Tstg	-45~ +80	°C

Note:
1.Ip Condition : 1/10 Duty Cycle, 0.1ms Pulse width .



L53SF5C

