

Kingbright®

T-1 (3mm) INFRA-RED EMITTING DIODES

L-934F3C

L-934SF4C

L-934F3BT

L-934SF4BT

Features

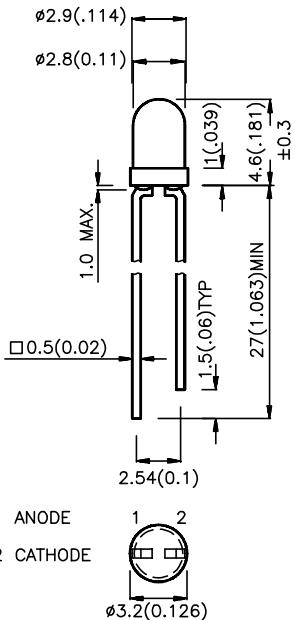
- MECHANICALLY AND SPECTRALLY MATCHED TO THE L-932P3C PHOTOTRANSISTOR.
- BOTH WATER CLEAR LENS AND BLUE TRANSPARENT LENS AVAILABLE HIGH POWER OUTPUT.

Description

F3 Made with Gallium Arsenide Infrared Emitting diodes.

SF4 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		Viewing Angle
		Min.	Max.	
L-934F3C	Water Clear	3.2	20	50°
L-934F3BT	Blue Transparent	3.2	20	50°
L-934SF4C	Water Clear	3.2	20	50°
L-934SF4BT	Blue Transparent	3.2	20	50°

Note:

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

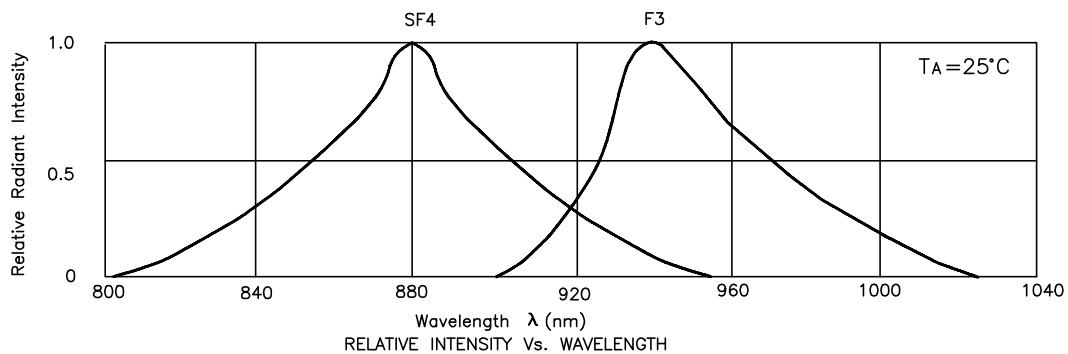
Electrical / Optical Characteristics at $T_A=25^\circ C$

Item	P/N	Symbol	Typ.	Max.	Unit	Condition
Forward Voltage	L-934F3C L-934F3BT L-934SF4C L-934SF4BT	VF	1.2 1.2 1.3 1.3	1.5 1.5 1.7 1.7	V	IF=20mA
Reverse Current	L-934F3C L-934F3BT L-934SF4C L-934SF4BT	IR	-	10 10 10 10	uA	VR=5V
Junction Capacitance	L-934F3C L-934F3BT L-934SF4C L-934SF4BT	Co	90 90 90 90	-	pF	V=0 f=1MHz
Peak Spectral Wavelength	L-934F3C L-934F3BT L-934SF4C L-934SF4BT	IR	940 940 880 880	-	nm	IF=20mA
Spectral Bandwidth	L-934F3C L-934F3BT L-934SF4C L-934SF4BT	$\Delta\lambda$	50 50 50 50	-	nm	IF=20mA

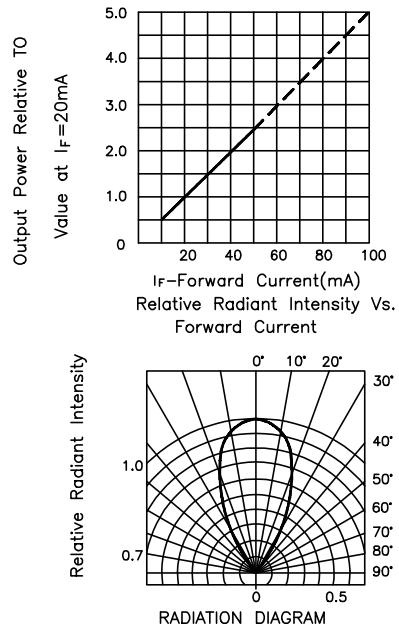
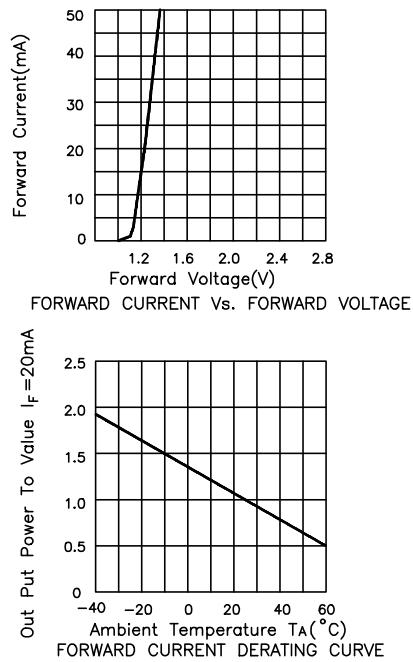
Absolute Maximum Ratings at $T_A=25^\circ C$

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 Condiction : 1/10 Duty Cycle, 0.1ms Pluse Width.



L-934F3C/L-934F3BT



L-934SF4C/L-934SF4BT

