

Part Number: L-93DP3C

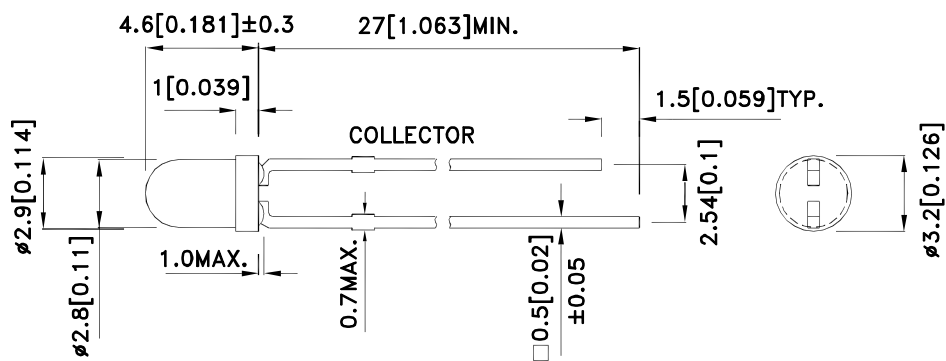
### Features

- Mechanically and spectrally matched to the infrared emitting LED lamp.
- Water clear lens.
- RoHS compliant.

### Description

Made with NPN silicon phototransistor chips.

### 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.



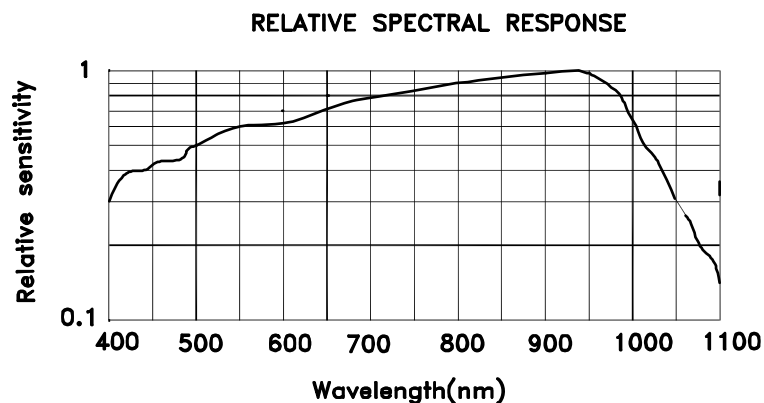
## Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Code.	Min.	Typ.	Max.	Units	Test Conditions
V <sub>BR CEO</sub>	Collector-to-Emitter Breakdown Voltage		30			V	I <sub>C</sub> =100uA E <sub>e</sub> =0mW/cm <sup>2</sup>
V <sub>BR ECO</sub>	Emitter-to-Collector Breakdown Voltage		5			V	I <sub>E</sub> =100uA E <sub>e</sub> =0mW/cm <sup>2</sup>
V <sub>CE (SAT)</sub>	Collector-to-Emitter Saturation Voltage				0.8	V	I <sub>C</sub> =2mA E <sub>e</sub> =20mW/cm <sup>2</sup>
I <sub>CEO</sub>	Collector Dark Current				100	nA	V <sub>CE</sub> =10V E <sub>e</sub> =0mW/cm <sup>2</sup>
T <sub>R</sub>	Rise Time (10% to 90% )			15		us	V <sub>CE</sub> = 5V I <sub>C</sub> =1mA R <sub>L</sub> =1000Ω
T <sub>F</sub>	Fall Time (90% to 10% )			15		us	
I <sub>(ON)</sub>	On State Collector Current	H	0.3		0.6	mA	V <sub>CE</sub> = 5V E <sub>e</sub> =1mW/cm <sup>2</sup> λ=940nm
		I	0.4		1		
		K	0.7		1.5		

## Absolute Maximum Ratings at TA=25°C

Parameter	Max.Ratings
Collector-to-Emitter Voltage	30V
Emitter-to-Collector Voltage	5V
Power Dissipation at (or below) 25°C Free Air Temperature	100mW
Operating Temperature	-40°C To +85°C
Storage Temperature	-40°C To +85°C
Lead Soldering Temperature (>5mm for 5sec)	260°C

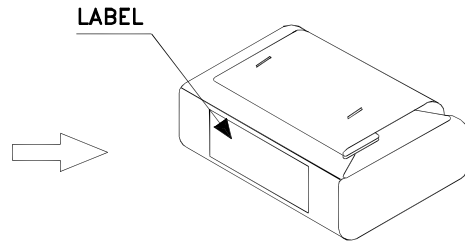
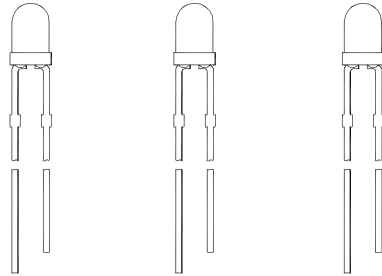
### L-93DP3C



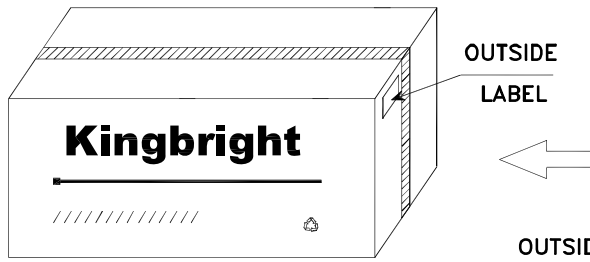
# Kingbright

## PACKING & LABEL SPECIFICATIONS

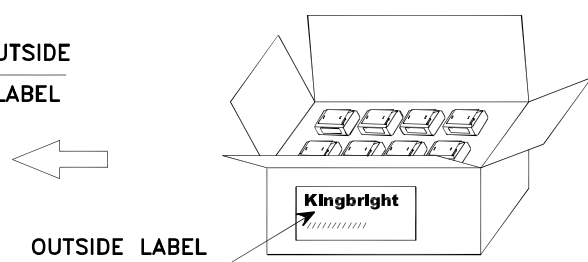
L-93DP3C



1000PCS / BAG



56K / 9# BOX



28K / 5# BOX

<h1 style="margin: 0;">Kingbright</h1>		
P/NO: L-93Dxxx		
QTY: 1000 pcs	Q.C.	<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;">           Q C            XX XX XXXX            PASSED         </div>
S/N: XXXX		
CODE: XXX		
LOT NO:		
<small>XXXXXXXXXXXXXXXXXXXX</small>		
RoHS Compliant		