

PHOTOTRANSISTOR

Part Number: L-93DP3BT

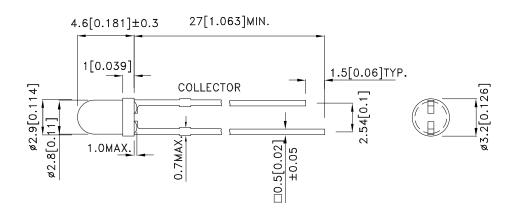
Features

- MECHANICALLY AND SPECTRALLY MATCHED TO THE INFRARED EMITTING LED LAMP.
- BLUE TRANSPARENT LENS.
- RoHS COMPLIANT.

Description

Made with NPN silicon phototansistor chips.

Package Dimensions



- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
- Lead spacing is measured where the leads emerge from the package.
 Specifications are subject to change without notice.





SPEC NO: DSAH7518 **REV NO: V.1** DATE: SEP/10/2007 PAGE: 1 OF 2 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: S.J.Liu ERP: 1101021823

Kingbright

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Min.	Тур.	Max.	Units	Test Conditions
VBR CEO	Collector-to-Emitter Breakdown Voltage	30			V	Ic=100uA Ee=0mW/c m³
VBR ECO	Emitter-to-Collector Breakdown Voltage	5			V	IE=100uA Ee=0mW/c m²
VCE (SAT)	Collector-to-Emitter Saturation Voltage			0.8	V	Ic=2mA Ee=20mW/c m²
I CEO	Collector Dark Current			100	nA	Vc=10V Ee=0mW/c m³
TR	Rise Time (10% to 90%)		15		us	VcE = 5V Ic=1mA RL=1000Ω
TF	Fall Time (90% to 10%)		15		us	
I (ON)	On State Collector Current	0.07	0.35		mA	VcE = 5V Ee=1mW/c m ² λ=940nm

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			

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