

NPN T-1 Modified 3 ϕ Phototransistor LTR-209

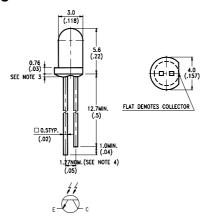
Features

- · Wide range of collector currents.
- · Lens for high sensitivity.
- · Low cost plastic package.

Description

The LTR-209 consist of a NPN silicon phototransistor mounted in a lensed, clear plastic, end looking package. The lensing effect of the package allows an acceptance half angle of 8 $^{\circ}$ measured from the optical axis to the half power point. This series is mechanically and spectrally matched to the LTE-209 series of infrared emitting diodes.

Package Dimensions



Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is \pm 0.25mm (.010") unless otherwise noted.
- 3. Protruded resin under flange is 1.5mm (.059") max.
- 4. Lead spacing is measured where the leads emerge from the package.
- 5. Specifications are subject to change without notice.

Absolute Maximum Ratings at Ta=25°C

Parameter	Maximum Rating	Unit			
Power Dissipation	100	mW			
Collector-Emitter Voltage	30	V			
Emitter-Collector Voltage	5	V			
Operating Temperature Range	-40°C to +85°C				
Storage Temperature Range	-55°C to +100°C				
Lead Soldering Temperature [1.6mm (.063 in.) from body]	260℃ for 5 Seconds				

Electrical Optical Characteristics at Ta=25°C

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Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition		
Collector-Emitter Breakdown Voltage	V(BR)CEO	30			V	Ic=1mA Ee=0mW/cm ²		
Emitter-Collector Breakdown Voltage	V(BR)ECO	5			V	I _E =100 μ A E _E =0mW/cm ²		
Collector Emitter Saturation Voltage	VCE(SAT)			0.4	V	Ic=100 μ A Ee=1mW/cm ²		
Rise Time	Tr		10		μS	Vcc=5V lc=1mA		
Fall Time	Tf		15		μS	RL=1K Ω		
Collector Dark Current	ICEO			100	nA	VcE=10V Ee=0mW/cm ²		
On State Collector Current	Ic(on)	1	4		mA	VcE=5V Ee=1mW/cm ² λ =940nm		

Typical Electrical/Optical Characteristic Curves (25°C Ambient Temperature Unless Otherwise Noted)

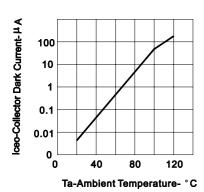


FIG.1 COLLECTOR DARK CURRENT VS AMBIENT TEMPERATURE

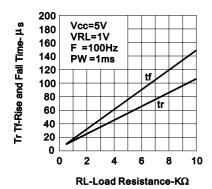


FIG.3 RISE AND FALL TIME VS LOAD RESISTANCE

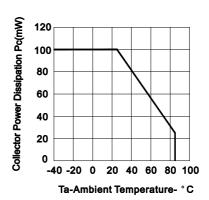


FIG.2 COLLECTOR POWER DISSIPATION VS AMBIENT TEMPERATURE

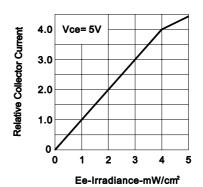


FIG.4 RELATIVE COLLECTOR CURRENT VS IRRADIANCE

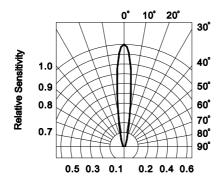


FIG.5 SENSITIVITY DIAGRAM



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