

NPN Black Plastic Two Bits Phototransistor

LTR-5576D/LTR-5986D

Features

- Wide range of collector currents.
- · High sensitivity.
- · Fast switching time.

Description

The LTR-5576D and LTR-5986D are special dark plastic package that cut the visible for the detector and coupled with LTE-309 and LTE-302 for mouse & photoencoder application.

Package Dimensions

LTR-5576D



LTR-5986D



- 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℃

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

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	Iε=100 μ A Ee=0mW/cm ²
Collector Emitter Saturation Voltage	VCE(SAT)		0.1	0.4	V	Ic=100 μ A Ee=1mW/cm ²
Rise Time	Tr		15		μS	Vcc=5V
Fall Time	Tf		18		μS	R∟=1KΩ
Collector Dark Current	ICEO			100	nA	Vce=10V Ee=0mW/cm ²
On State Collector Current	IC(ON)	0.16	0.4		mA	$V_{CE}=5V$ Ee=1mW/cm ² λ =940nm
Collector Current Ratio of 2 Phototransistor	R	0.8	1.0	1.25		IC(on)(a)/IC(on)(b)

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









