

查询LTR-3208E供应商

**LITEON**

捷多邦，专业PCB打样工厂，24小时加急  
**NPN T-1 3/4 Standard 5 φ Phototransistor**  
LTR-3208/LTR-3208E

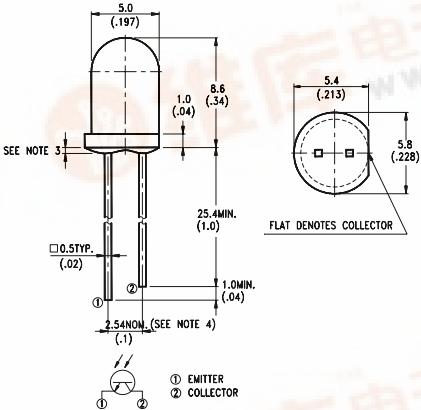
## Features

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

## Description

The LTR-3208 series 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 10° measured from the optical axis to the half power point. This series is mechanically and spectrally matched to the LTE-3271T/LTE-3371T series of infrared emitting diodes. The LTR-3208E is a special dark plastic package that cut the visible light and suitable for the detectors of infrared application.

## Package Dimensions



### Notes:

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

## Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

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°C for 5 Seconds	

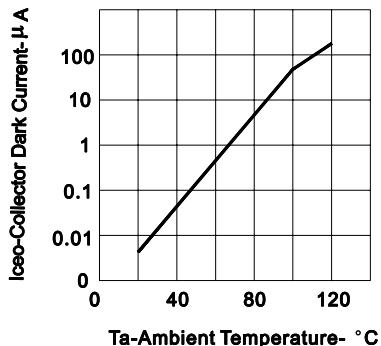
## Electrical Optical Characteristics at $T_a=25^\circ\text{C}$

Parameter	Symbol	Part No.	Min.	Typ.	Max.	Unit	Test Condition
Collector-Emitter Breakdown Voltage	$V_{(\text{BR})\text{CEO}}$		30			V	$I_c=1\text{mA}$ $E_e=0\text{mW/cm}^2$
Emitter-Collector Breakdown Voltage	$V_{(\text{BR})\text{ECO}}$		5			V	$I_e=100 \mu\text{A}$ $E_e=0\text{mW/cm}^2$
Collector Emitter Saturation Voltage	$V_{\text{CE}(\text{SAT})}$				0.4	V	$I_c=100 \mu\text{A}$ $E_e=1\text{mW/cm}^2$
Rise Time	$T_r$			10		$\mu\text{S}$	$V_{\text{CC}}=5\text{V}$ $I_c=1\text{mA}$ $R_L=1\text{K}\Omega$
Fall Time	$T_f$			15		$\mu\text{S}$	
Collector Dark Current	$I_{\text{CEO}}$				100	nA	$V_{\text{CE}}=10\text{V}$ $E_e=0\text{mW/cm}^2$
	$I_{\text{CEN}}$	LTR-3208	1	4		mA	$V_{\text{CE}}=5\text{V}$ $E_e=1\text{mW/cm}^2$

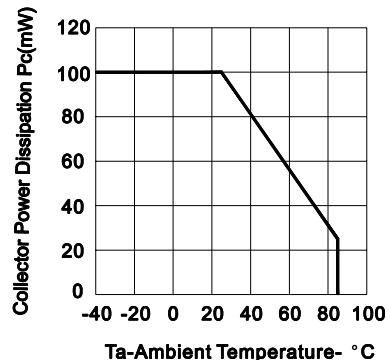
**INFRARED  
PRODUCTS**



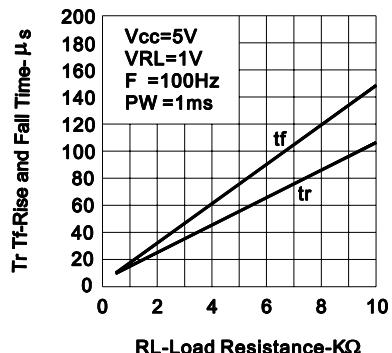
**Typical Electrical/Optical Characteristic Curves  
(25°C Ambient Temperature Unless Otherwise Noted)**



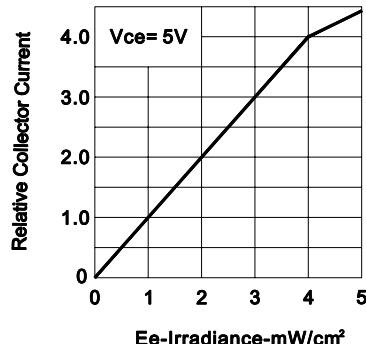
**FIG.1 COLLECTOR DARK CURRENT VS AMBIENT TEMPERATURE**



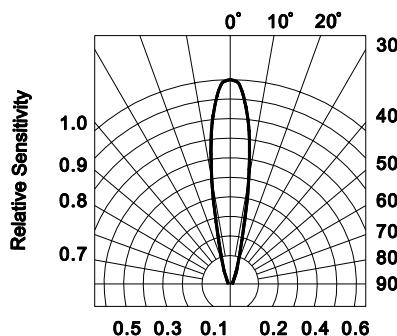
**FIG.2 COLLECTOR POWER DISSIPATION VS AMBIENT TEMPERATURE**



**FIG.3 RISE AND FALL TIME VS LOAD RESISTANCE**



**FIG.4 RELATIVE COLLECTOR CURRENT VS IRRADIANCE**



**FIG.5 SENSITIVITY DIAGRAM**

