

## Features

- \* HIGH ILLUMINATION SENSITIVITY.
- \* STABLE CHARACTERISTICS.
- \* SPECTRALLY AND MECHANICALLY MATCHED WITH IR EMITTER.
- \* NPN SILICON PHOTOTRANSISTOR.

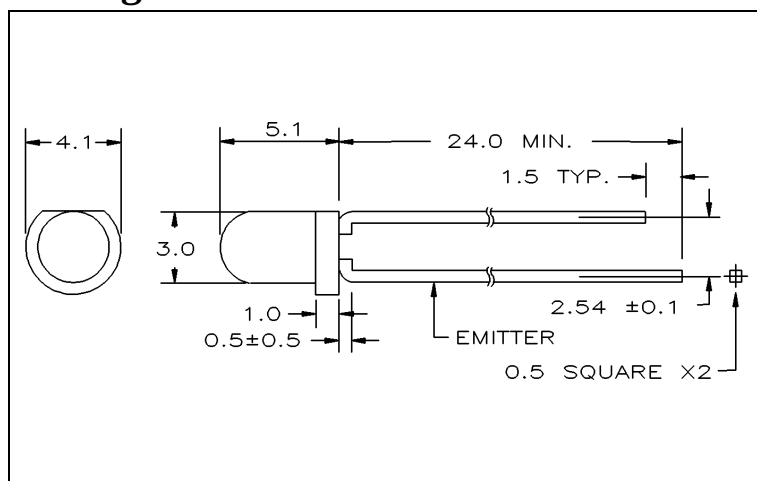
## Absolute Maximum Ratings at $T_A=25^{\circ}\text{C}$

|                                             |                                                   |
|---------------------------------------------|---------------------------------------------------|
| OPERATING TEMPERATURE RANGE.....            | -25 $^{\circ}\text{C}$ TO +85 $^{\circ}\text{C}$  |
| STORAGE TEMPERATURE RANGE.....              | -25 $^{\circ}\text{C}$ TO +100 $^{\circ}\text{C}$ |
| LEAD SOLDERING TEMP. (1.6mm FROM BODY)..... | 260 $^{\circ}\text{C}$ FOR 5 SEC.                 |

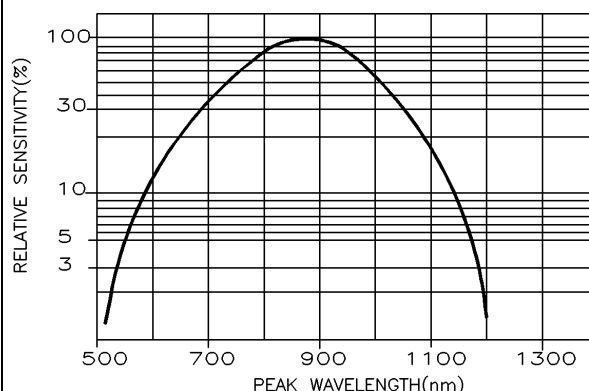
## Electrical/optical characteristics at $T_A=25^{\circ}\text{C}$

| PART NUMBER    | LENS COLOR  | COLLECTOR-EMITTER<br>BREAKDOWN<br>VOLTAGE (V)<br>$I_{CE0} = 100 \mu\text{A}$<br>$E_e = 0$ | EMITTER- COLLECTOR<br>BREAKDOWN<br>VOLTAGE (V)<br>$I_{ECO} = 100 \mu\text{A}$<br>$E_e = 0$ | COLLECTOR-EMITTER<br>BREAKDOWN<br>VOLTAGE (V)<br>$I_c = 0.5 \text{ mA}$<br>$E_e = 20\text{mw}/\text{cm}^2$ | COLLECTOR<br>DARK<br>CURRENT(nA)<br>$V_{CE} = 15\text{V}$<br>$E_e = 0$ | PHOTO<br>CURRENT (mA)<br>$V_{CE} = 5\text{V}$<br>$E_e = 20\text{mw}/\text{cm}^2$ |
|----------------|-------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| LT0393-46-0125 | WATER CLEAR | MIN. 30.0                                                                                 | MIN. 5.0                                                                                   | MAX. 1.3                                                                                                   | MAX. 100                                                               | TYP. 20.0                                                                        |
| LT0395-46-0125 | BLUE CLEAR  | MIN. 30.0                                                                                 | MIN. 5.0                                                                                   | MAX. 1.3                                                                                                   | MAX. 100                                                               | TYP. 20.0                                                                        |

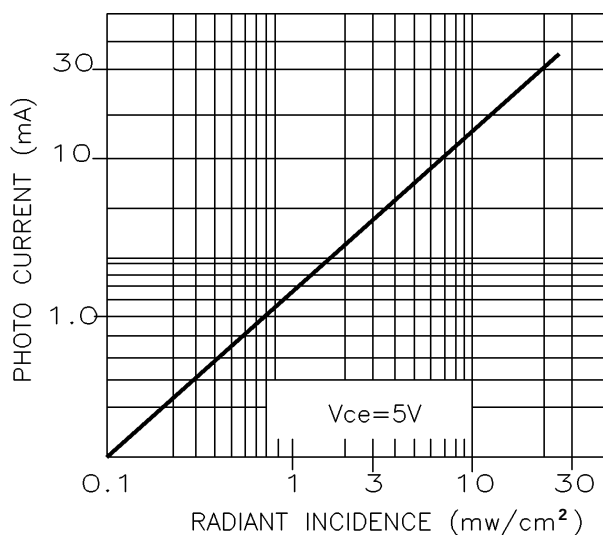
## Package Dimensions



## Relative Sensitivity VS. Peak Wavelength



## Photo Current VS. Radiant Incidence



## Max. Collector Dark Current VS. Ambient Temperature

