

Electrical Specifications

Absolute Maximum Ratings ($T_A = 25^\circ\text{C}$ unless otherwise noted)

| | |
|---|-------------------|
| Storage Temperature | -40° C to +100° C |
| Operating Temperature | -40° C to +85° C |
| Lead Soldering Temperature [1/16 inch (1.6 mm) from the case for 5 sec. with soldering iron] ⁽²⁾ | 260° C |
| LED | |
| Forward DC Current | 50 mA |
| Peak Forward Current (2 μs pulse width, 0.1 % duty cycle) | 1 A |
| Reverse DC Voltage | 2 V |
| Power Dissipation | 100 mW |
| Output Phototransistor | |
| Collector-Emitter Voltage | 24 or 30 V |
| Collector DC Current | 50 mA |
| Power Dissipation | 100 mW |

Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

| SYMBOL | PARAMETER | MIN | TYP | MAX | UNITS | TEST CONDITIONS |
|--|--|--------------------------------------|---------------------------------|---------------------------------|---------------|--|
| Input LED (See OP245 for additional information — for reference only) | | | | | | |
| V_F | Forward Voltage | - | - | 1.7 | V | $I_F = 20\text{ mA}$ |
| I_R | Reverse Current | - | - | 100 | μA | $V_R = 2.0\text{ V}$ |
| Output Phototransistor (See OP555 [OPB350] & OP750 [-062, -125, -187 & -250] for additional information— for Ref. Only) | | | | | | |
| $V_{(BR)CEO}$ | Collector-Emitter Breakdown Voltage | 30 24 | - - | - - | V | $I_C = 100\ \mu\text{A}$, $E_E = 0\text{ mw/cm}^2$ |
| I_{CEO} | Collector-Emitter Dark Current | - | - | 100 | nA | $V_{CE} = 10\text{ V}$, $I_F = 0$, $E_E = 0\text{ mw/cm}^2$ |
| Coupled | | | | | | |
| $V_{CE(SAT)}$ | Collector-Emitter Saturation Voltage | - | - | 0.4 | V | $I_C = 100\ \mu\text{A}$, $I_F = 5\text{ mA}$ |
| $I_{C(ON)}$ | On-State Collector Current OPB350L062 & OPB350W062Z OPB350 OPB350L125 & OPB350W125Z OPB350L187 & OPB350W187Z OPB350L250 & OPB350W250Z | 0.30 1.00 1.30 1.00 0.75 | 0.8 3.5 2.6 2.0 1.5 | 1.3 6.0 3.9 4.0 3.0 | mA | $V_{CE} = 0.4\text{ V}$, $I_F = 5\text{ mA}$ |
| On/Off Ratio | OPB350L062 & OPB350W062Z OPB350 OPB350L125 & OPB350W125 OPB350L187 & OPB350W187 OPB350L250 & OPB350W250 | - - - - - | 3.0 3.0 2.5 2.3 2.3 | - - - - - | - | $V_{CE} = 0.4\text{ V}$, $I_F = 5\text{ mA}$, $I.D.=0.0312^{(6)}$ $V_{CE} = 0.4\text{ V}$, $I_F = 5\text{ mA}$, $I.D.=0.0625^{(6)}$ $V_{CE} = 0.4\text{ V}$, $I_F = 5\text{ mA}$, $I.D.=0.0870^{(6)}$ $V_{CE} = 0.4\text{ V}$, $I_F = 5\text{ mA}$, $I.D.=0.1250^{(6)}$ |

General Note
TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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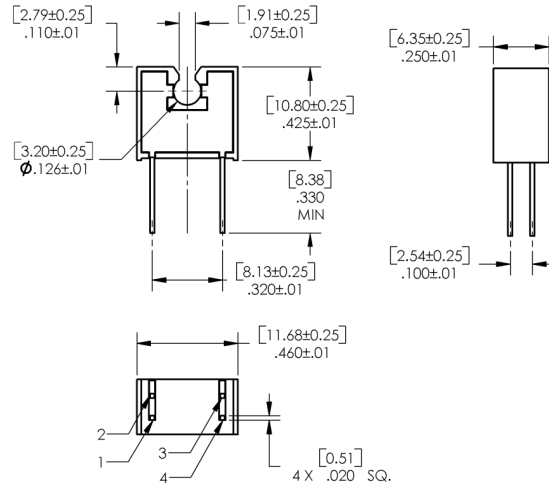
Tube Liquid Sensor

OPB350 / OCB350 Series

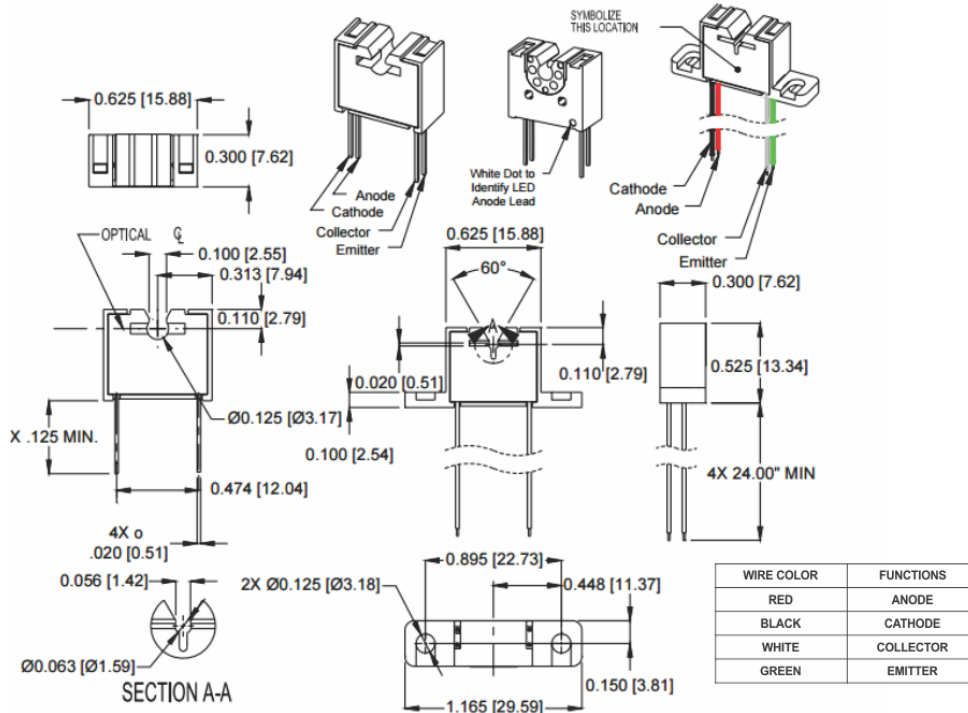
(Calibration Circuit Available)



OPB350



OPB350L062 & OPB350W062Z OPB350L125 & OPB350W125Z



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