

## NTE3084 Optoisolater NPN Photo Darlington Output

**Features:**

- High Isolation Voltage—7500V

**Electrical Characteristics:** ( $T_A = +25^\circ\text{C}$  unless otherwise specified)

|   |              |
|---|--------------|
| Minimum Current Transfer Ratio ( $I_F = 10\text{mA}$ , $V_{CE} = 5\text{V}$ ), CTR .....              | 100%         |
| Minimum Isolation Voltage (Input-to-Output, Note 1) $V_{ISO}$ .....                                   | 7500V (Peak) |
| Maximum Saturation Voltage ( $I_F = 50\text{mA}$ , $I_C = 50\text{mA}$ ), $V_{CE(sat)}$ .....         | 1.0V         |
| Maximum Collector Dark Current ( $I_F = 0$ , $V_{CE} = 10\text{V}$ ), $I_{CEO}$ .....                 | 100nA        |
| Minimum Collector-Emitter Breakdown Voltage ( $I_F = 0$ , $I_C = 0.1\text{mA}$ ), $V_{(BR)CEO}$ ..... | 55V          |
| Maximum LED Forward Voltage ( $I_F = 20\text{mA}$ ), $V_F$ .....                                      | 1.5V         |

Note 1. Isolation Surge Voltage ( $V_{ISO}$ ), is an internal device dielectric breakdown rating. For this test LED Pin1 and Pin2 are common and phototransistor Pin4, Pin5, and Pin6 are common.

