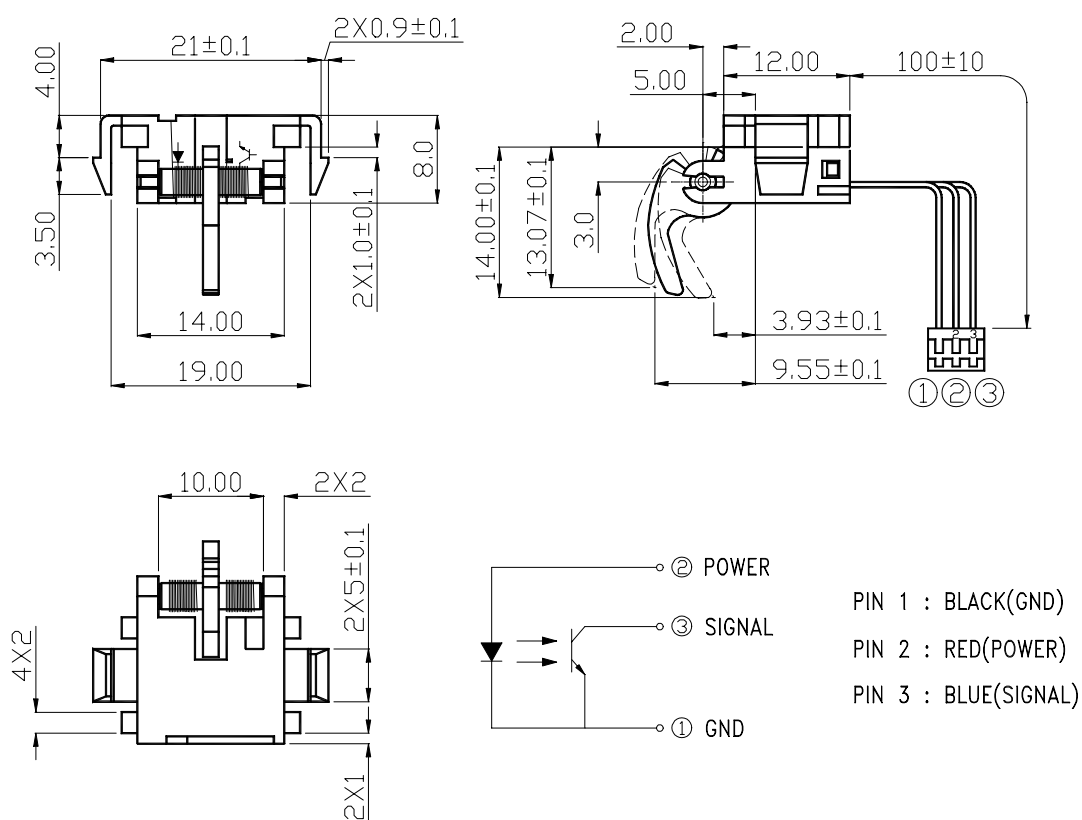


## FEATURES

- \* SNAP MOUNTING.
- \* MECHANICAL SWITCH REPLACEMENT.
- \* THREE WIRES FOR ELECTRICAL CONNECTION.
- \* GUARANTEED ACTUATOR LIFE 10<sup>6</sup> TIMES.

## PACKAGE DIMENSIONS



### NOTES:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.3mm(.012") unless otherwise noted.

### ABSOLUTE MAXIMUM RATINGS AT TA=25

| PARAMETER                                                 | MAXIMUM RATING    | UNIT |
|-----------------------------------------------------------|-------------------|------|
| INPUT LED                                                 |                   |      |
| Power Dissipation                                         | 75                | mW   |
| Forward Current $I_F$                                     | 50                | mA   |
| Reverse Voltage $V_R$                                     | 5                 | V    |
| OUTPUT PHOTOTRANSISTOR                                    |                   |      |
| Power Dissipation $P_C$                                   | 75                | mW   |
| Collector-Emitter Voltage $V_{CEO}$                       | 30                | V    |
| Emitter-Collector Voltage $V_{ECO}$                       | 5                 | V    |
| Collector Current $I_C$                                   | 50                | mA   |
| Operating Temperature Range                               | -25 to + 85       |      |
| Storage Temperature Range                                 | -40 to + 100      |      |
| Lead Soldering Temperature<br>[ 1.6mm (.063") Form Case ] | 260 for 5 Seconds |      |

### ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25

| PARAMETER                            | SYMBOL        | MIN. | TYP. | MAX. | UNIT          | TEST CONDITION                          |
|--------------------------------------|---------------|------|------|------|---------------|-----------------------------------------|
| INPUT LED                            |               |      |      |      |               |                                         |
| Forward Voltage                      | $V_F$         | 1.00 | 1.15 | 1.30 | V             | $I_F = 10\text{mA}$                     |
| Reverse Current                      | $I_R$         | -    | -    | 10   | $\mu\text{A}$ | $V_R=5\text{V}$                         |
| OUTPUT PHOTOTRANSISTOR               |               |      |      |      |               |                                         |
| Collector-Emitter Dark Current       | $I_{CEO}$     | -    | -    | 100  | nA            | $V_{CE}=24\text{V}, I_F=0\text{mA}$     |
| COUPLED                              |               |      |      |      |               |                                         |
| Collector-Emitter Saturation Voltage | $V_{CE(SAT)}$ | -    | 0.15 | 0.4  | V             | $I_C=0.1\text{mA}$<br>$I_F=10\text{mA}$ |
| On State Collector Current (*1)      | $I_{C(ON)}$   | 0.4  | 2.0  | -    | mA            | $V_{CE}=5\text{V}$<br>$I_F=10\text{mA}$ |
| On State Collector Current(*2)       | $I_{CP(OFF)}$ | -    | -    | 100  | $\mu\text{A}$ | $V_{CE}=5\text{V}$<br>$I_F=10\text{mA}$ |

\*1 : Light Path Open

\*2 : Light Path Blocked

### TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25 Ambient Temperature Unless Otherwise Noted)

Fig.1 Power Dissipation vs. Ambient Temperature

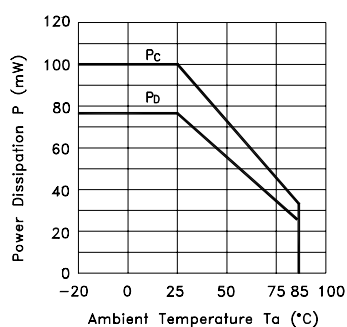


Fig.2 Forward Current vs. Forward Voltage

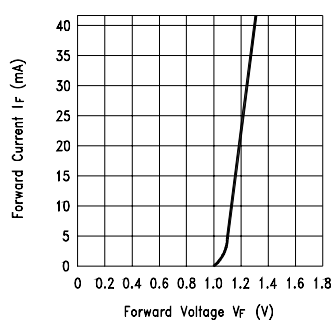


Fig.3 Collector Current vs. Collector-emitter Voltage

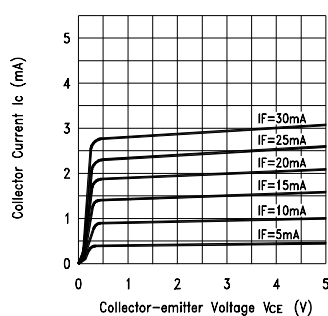


Fig.4 Collector Current vs. Ambient Temperature

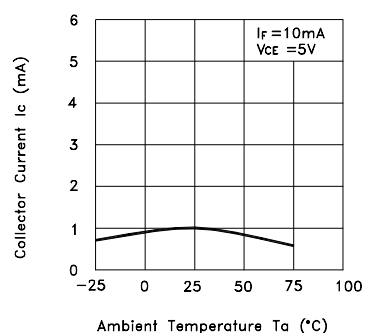


Fig.5 Collector-emitter Saturation Voltage vs. Ambient Temperature

