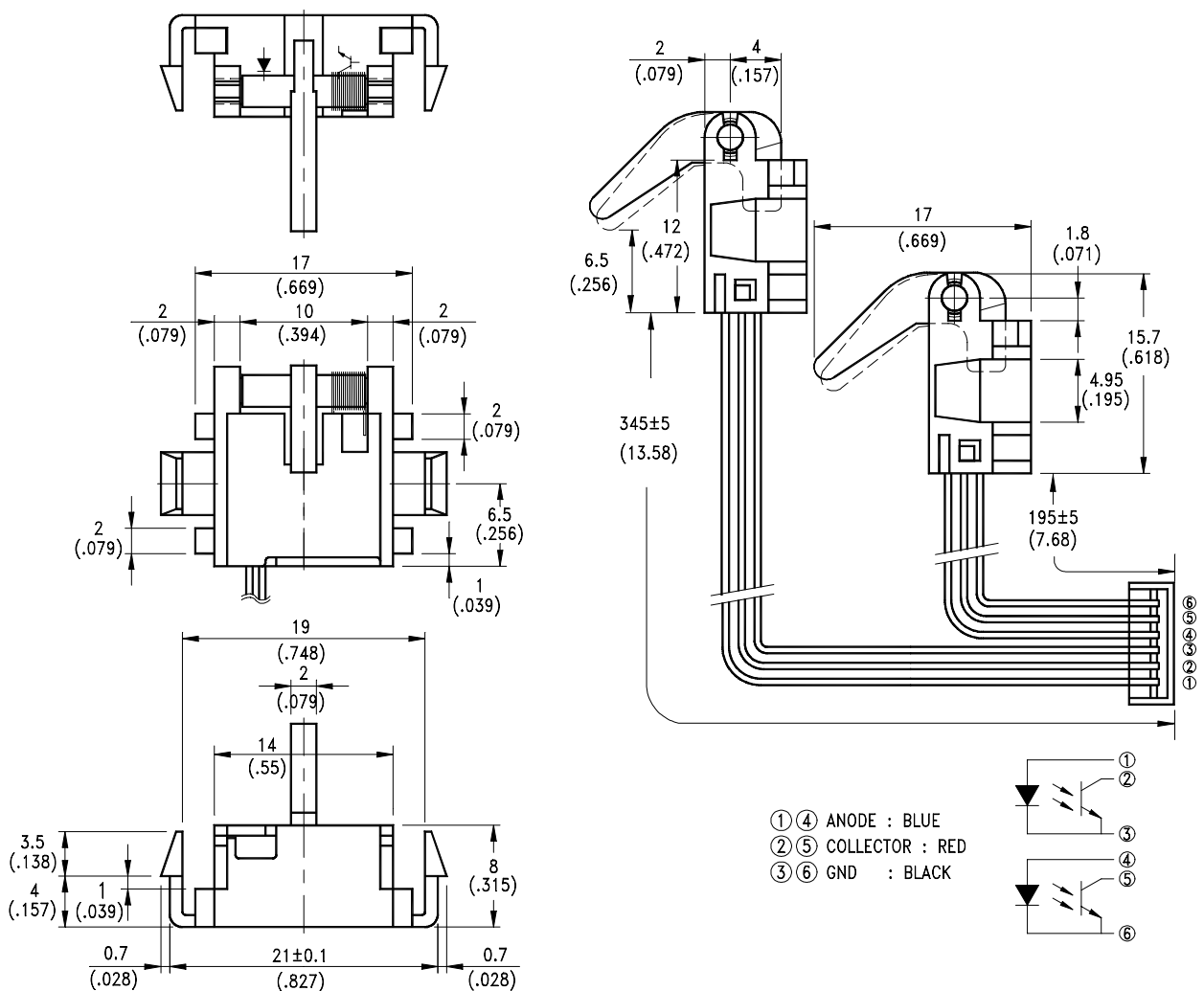


## FEATURES

- \* MECHANICAL SWITCH REPLACEMENT.
- \* CUSTOMIZED LEVER ARM CAN BE DESIGNED FOR SPECIFIC APPLICATION.

## PACKAGE DIMENSIONS



## NOTES:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25\text{mm}(.010\text{'})$  unless otherwise noted.



**ABSOLUTE MAXIMUM RATINGS AT TA=25°C**

| PARAMETER   | MAXIMUM RATING      | UNIT |
|---|---------------------|------|
| INPUT LED   |                     |      |
| Power Dissipation   | 75                  | mW   |
| Peak Forward Current ( 300 pps , 10 $\mu$ S pulse)        | 1                   | A    |
| Continuous Forward Current                                | 50                  | mA   |
| Reverse Voltage   | 5                   | V    |
| OUTPUT PHOTOTRANSISTOR                                    |                     |      |
| Power Dissipation   | 100                 | mW   |
| Collector-Emitter Voltage                                 | 30                  | V    |
| Emitter-Collector Voltage                                 | 5                   | V    |
| Collector Current   | 20                  | mA   |
| Operating Temperature Range                               | -25°C to + 85°C     |      |
| Storage Temperature Range                                 | -40°C to + 100°C    |      |
| Lead Soldering Temperature<br>[ 1.6mm (.063") Form Case ] | 260°C for 5 Seconds |      |



**ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25°C**

| PARAMETER                               | SYMBOL   | MIN. | TYP. | MAX. | UNIT | TEST CONDITION      |
|---|----------|------|------|------|------|---------------------|
| <b>INPUT LED</b>                        |          |      |      |      |      |                     |
| Forward Voltage                         | VF       |      | 1.2  | 1.6  | V    | IF = 20mA           |
| Reverse Current                         | IR       |      |      | 100  | μA   | VR=5V               |
| <b>OUTPUT PHOTOTRANSISTOR</b>           |          |      |      |      |      |                     |
| Collector-Emitter<br>Breakdown Voltage  | V(BR)CEO | 30   |      |      | V    | IC=1mA              |
| Emitter-Collector<br>Breakdown Voltage  | V(BR)ECO | 5    |      |      | V    | IE=100 μA           |
| Collector-Emitter<br>Dark Current       | ICEO     |      |      | 100  | nA   | VCE=10V             |
| <b>COUPLER</b>                          |          |      |      |      |      |                     |
| Collector-Emitter<br>Saturation Voltage | VCE(SAT) |      |      | 0.4  | V    | IC=0.2mA<br>IF=20mA |
| On State Collector Current              | Ic(ON)   | 0.5  | 2    |      | mA   | VCE=5V<br>IF=20mA   |

## TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

Fig.1 Power Dissipation vs. Ambient Temperature

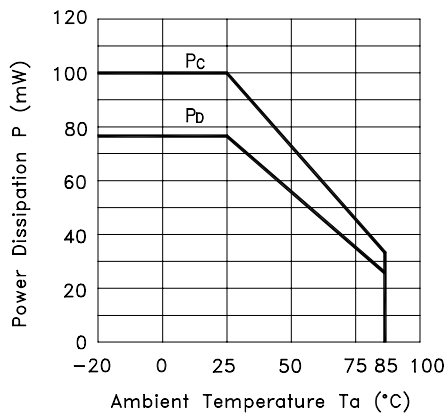


Fig.2 Forward Current vs. Forward Voltage

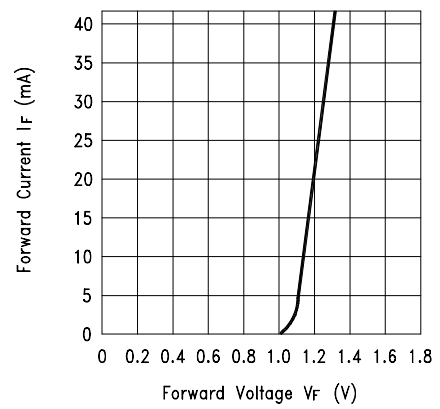


Fig.3 Collector Current vs. Forward Voltage

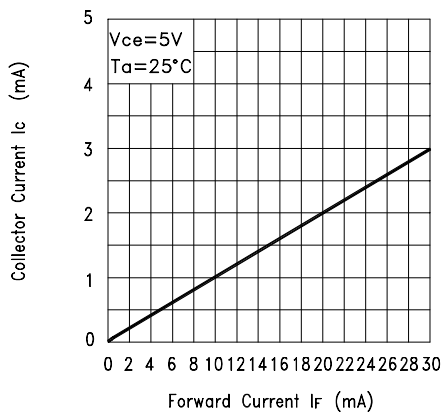
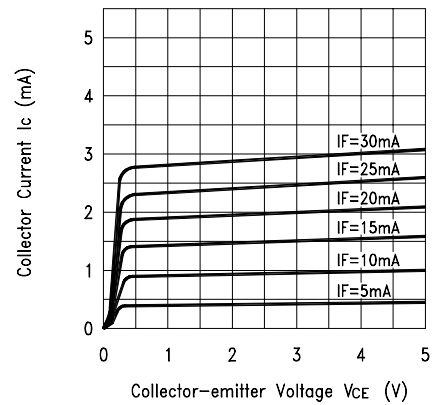


Fig.4 Collector Current vs. Collector-emitter Voltage



## TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

Fig.5 Collector Current vs. Ambient Temperature

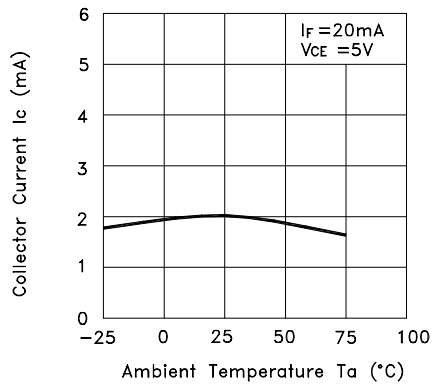


Fig.6 Collector-emitter Saturation Voltage vs. Ambient Temperature

