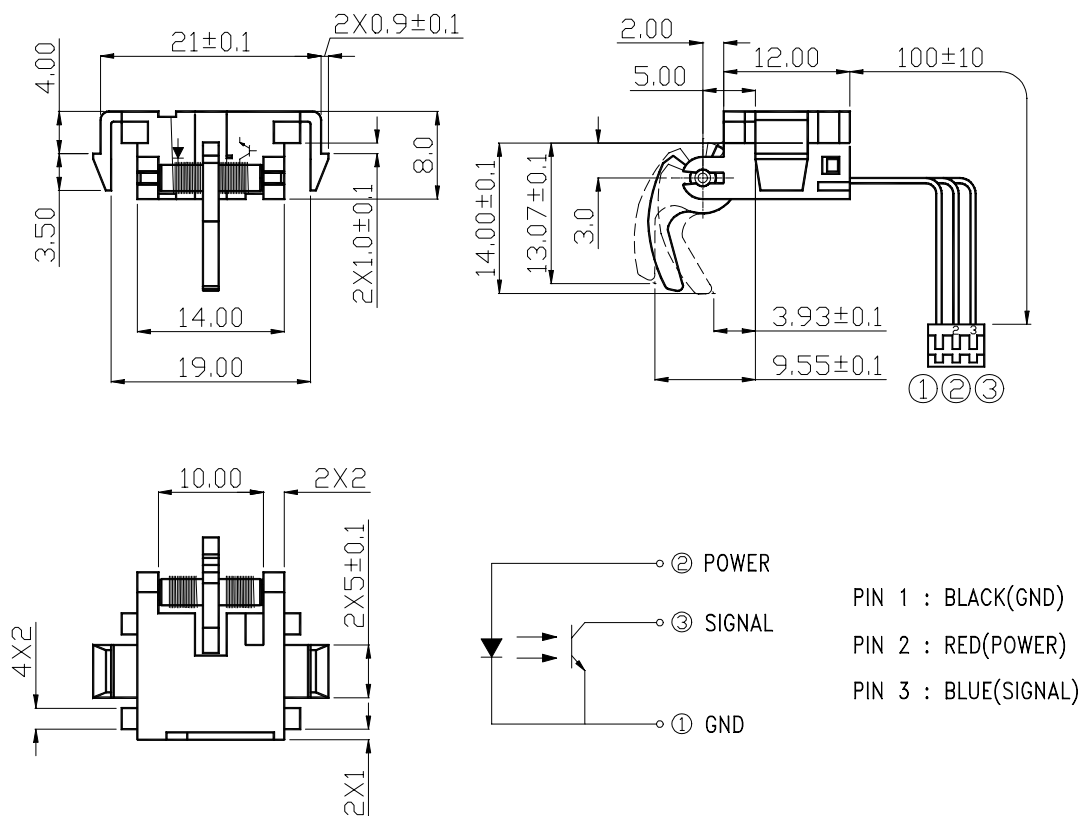


## FEATURES

- \* SNAP MOUNTING.
- \* MECHANICAL SWITCH REPLACEMENT.
- \* THREE WIRES FOR ELECTRICAL CONNECTION.
- \* GUARANTEED ACTUATOR LIFE 10<sup>7</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
<b>INPUT LED</b>		
Power Dissipation	75	mW
Forward Current $I_F$	50	mA
Reverse Voltage $V_R$	5	V
<b>OUTPUT PHOTOTRANSISTOR</b>		
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 [ 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	$I_C=0.1\text{mA}$ $I_F=10\text{mA}$
On State Collector Current (*1)	$I_{C(ON)}$	0.4	2.0	-	mA	$V_{CE}=5\text{V}$ $I_F=10\text{mA}$
On State Collector Current(*2)	$I_{CP(OFF)}$	-	-	100	$\mu\text{A}$	$V_{CE}=5\text{V}$ $I_F=10\text{mA}$

\*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

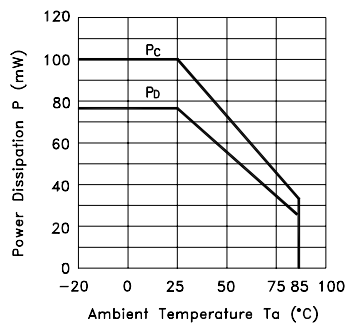


Fig.2 Forward Current vs. Forward Voltage

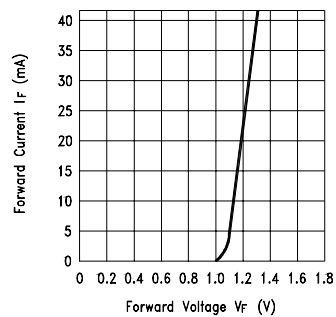


Fig.3 Collector Current vs. Collector-emitter Voltage

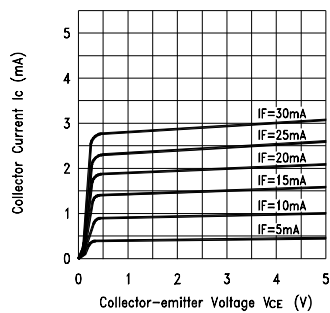


Fig.4 Collector Current vs. Ambient Temperature

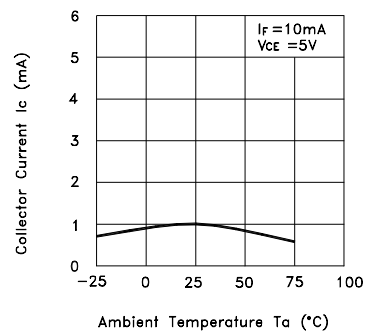


Fig.5 Collector-emitter Saturation Voltage vs. Ambient Temperature

