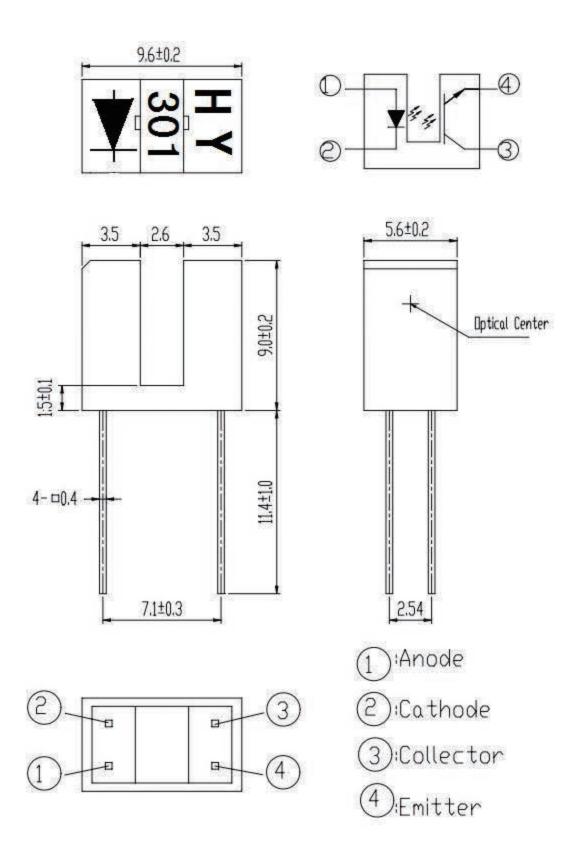
FEATURES

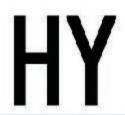
- NON-CONTACT SWITCHING.
- FOR SIRECT PC BOARD OR DUAL-IN-LINE SOCKET MOUNTING.
- · FAST SWITCHING SPEED

PACKAGE DIMENSIONS

HY301



- 1. All dimensions are in millimeters (inxhes).
- 2. Tolerance is ± 0.25 mm (.010") unless otherwise noted



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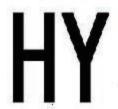
HING YIP ELECTTRONIC (CHINA) CO., LTD

ABSOLUTE MAXIMUM RATINGS AT TA=25°C

| PARAMETER | MAXIMUM RATING | UNIT | | |
|--|---------------------|-------------|--|--|
| IR Diode Continuous Forward Current | 50 | mA | | |
| IR Diode Reverse Voltage | 5 | v | | |
| Transistor Collector Current | 20 | mA | | |
| Transistor Power Dissipation | 75 | mW (Note 1) | | |
| IR Diode Peak Forward Current (Pulse Wide = 10 \(\mu \text{S}\), 300 pps) | 1 | A | | |
| Diode Power Dissipation | 100 | mW (Note 1) | | |
| Phototransistor Collector-Emitter Voltage | 30 | V | | |
| Phototransistor Emitter-Collector Voltage | 5 | V | | |
| Operating Temperature Range | -55°C to + 100°C | | | |
| Storage Temperature Range | -55°C to +100°C | | | |
| Lead Soldering Temperature [1.6mm(.063") From Case] | 260°C for 5 Seconds | | | |

Note 1: Derate Linearly 1.33mW/C from 25°C

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HING YIP ELECTTRONIC (CHINA) CO., LTD

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25℃ Ambient Temperature Unless Otherwise Noted)

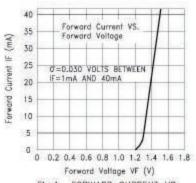
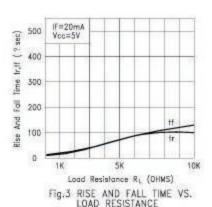


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE



F=30mA
F=30mA
F=20mA
F=15mA
F=

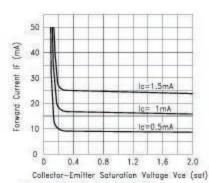


Fig. 4 FORWARD CURRENT VS.
Collector-Emitter Saturation Voltage

- 1. All dimensions are in millimeters (inches).
- Tolerance is ±0.25mm(.010") unless otherwise noted.



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HING YIP ELECTTRONIC (CHINA) CO., LTD

ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25°C

| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNIT | TEST CONDITION |
|--------------------------------------|----------|------|------|------|------|----------------------|
| INPUT LED | | 91 | | | | |
| Forward Voltage | VF | | 1.2 | 1.6 | V | $I_F = 20 \text{mA}$ |
| Reverse Current | IR | | | 100 | μΑ | VR=5V |
| OUTPUT PHOTOTRANSISTO |)R | | | | 8 2 | |
| Collector-Emitter Breakdown Voltage | V(BR)CEO | 30 | | | v | IC=1mA |
| Emitter-Collector Breakdown Voltage | V(BR)ECO | 5 | (c | | v | IE=100 μ A |
| Collector-Emitter Dark Current | ICEO | | | 100 | nA | VCE=10V |
| COUPLER | | | | | | |
| Collector-Emitter Saturation Voltage | VCE(SAT) | | | 0.4 | v | IC=0.2mA IF=20mA |
| On State Collector Current | Ic(ON) | 0.4 | | 2,4 | mA | VCE=5V IF=20mA |

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- 2. Tolerance is ±0.25mm(.010") unless otherwise noted.