香港與業電子公司 HONGKONG HINGYIP ELECTRONIC CO., 興業電子(中國)有限公司 TEL: 0755—83687887

HINGYIP ELECTRONIC (CHINA) CO., LTD. FAX: 0755-83291852

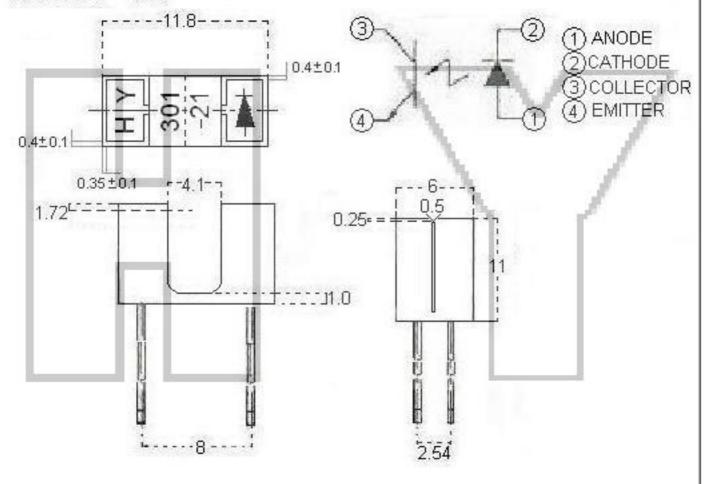
深圳市華強北路華強電子世界二棟 21C126 室 Http://www.hyzt.com E-mail:hyzt@hyzt.com

FEATURES

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

PACKAGE DIMENSIONS

HY301-21



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

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HY301-21

ABSOLUTE MAXIMUM RATINGS AT TA=25°C

PARAMETER	MAXIMUM RATING	UNIT mA			
IR Diode Continuous Forward Current	50				
IR Diode Reverse Voltage	5				
Transistor Collector Current	20	mA			
Transistor Power Dissipation	75	mW (Note 1)			
IR Diode Peak Forward Current (Pulse Wide = 10 µS, 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℃ for 5 Seconds				

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

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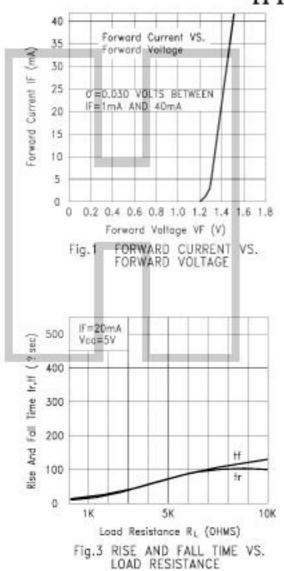
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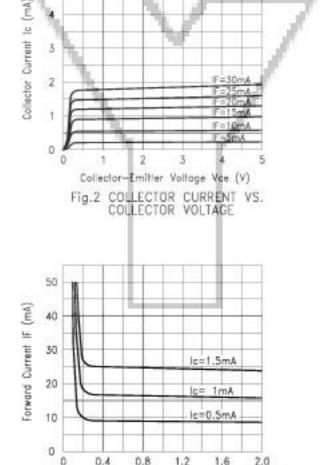
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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25℃ Ambient Temperature Unless Otherwise Noted)

HY301-21





Collector-Emitter Saturation Vallage Vae (sat)

Collector-Emitter Saturation Voltage

Fig. 4 FORWARD CURRENT VS.

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HY301-21

ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25°C

PARAMETER	The state of the s						
	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION	
INPUT LED				1		- 1	
Forward Voltage	VF		1.2	1.6	V	$I_F = 20 \text{mA}$	
Reverse Current	IR			100	μA	VR=5V	
OUTPUT PHOTOTRANSISTOR			00				
Collector-Emitter Breakdown Voltage	V(BR)CEO	30			v	IC=1mA	
Emitter-Collector Breakdown Voltage	V(BR)ECO	5			v	1E=100 μ A	
Collector-Emitter Dark Current	ICEO			100	nΑ	VCE=10V	
COUPLER	leil leil		141	700	100	-	
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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