## **ZD1901 PHOTO INTERRUPTER DATA**

This device enables you to turn a circuit on and off optically. In a moulded plastic housing with a IR LED facing a photo-transistor across a gap.

## **Features**

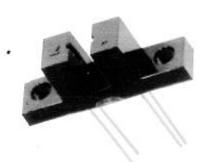
High reliability
High Speed
Rugged one piece construction
PCB or chassis mounting
Capable of a many applications
0.5mm aperture
Low cost

## Applications Tape-end sensor

Tape-end sensor Tachometer Opto ignition Timing sensor Edge sensor Counter Sensor

## ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

	SYMBOL	RATINGS	UNIT	
INPUT Forward DC current Pulse forward current Reverse Voltage	If Ifp Vr	60 6	mA A V	
OUTPUT Collector emitter voltage Emitter collector voltage Power dissapation	BV cco BV cco Pc	30 <b>6</b> 100	V V mW	
COUPLED Storage temperature Operating temperature Lead soldering temp (5 sec)	Tstr Topr	-25 ~ +100 -20 ~ +85 250	ດໍດໍດໍ	



	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS
INPUT Forward voltage Reverse leakage current	Vf Ir	=	1.2	1.5 10	V uA	If = 30mA Vr= 4V
OUTPUT Dark current Junction capacitance	ld Ct	Ξ	=	100	nA	VCE = 10V If = 0
COUPLED Output current Rise time Fall time	lc Tr Tf	0.5	- 5 5	Ξ	mA uS uS	If = 20mA VCE = 5V Ic = 2mA VCE = 5V RL = 100 ohm

