

Photointerrupter ZD-1901

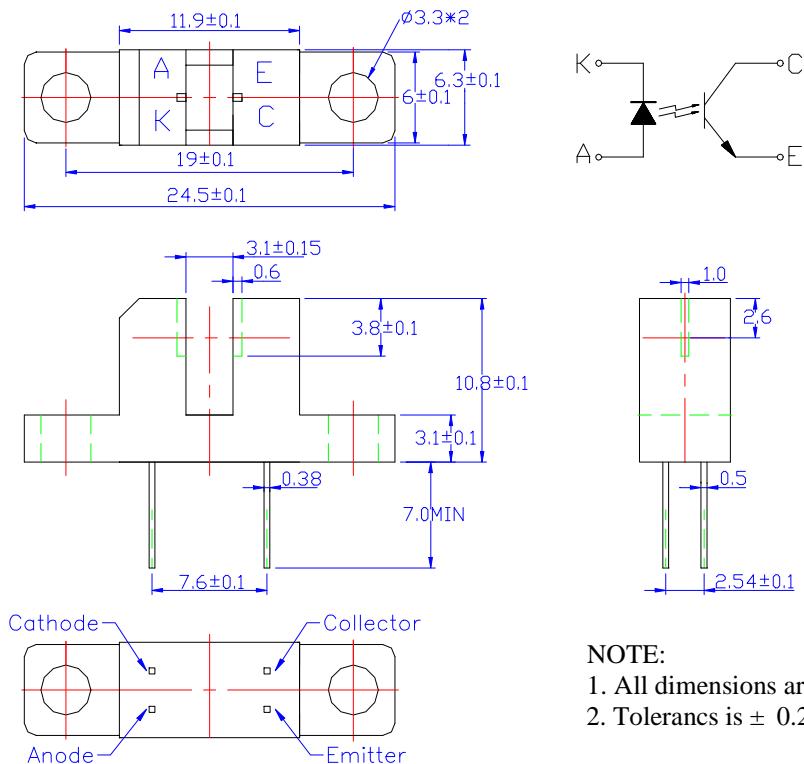
Features

- High sensing accuracy (Slit width: 1.0 mm)
- PWB direct mounting type package

Applications

- Copiers, printers, facsimiles
- Optoelectronic switches

Outline Dimensions



NOTE:

1. All dimensions are in millimeter.
2. Tolerances is ± 0.25 .

Absolute Maximum Ratings (Ambient Temperature: 25°C)

Item	Symbol	Rating	Units	Note
Input	Forward current	I _F	50	mA
	Reverse voltage	V _R	5	V
	Peak forward current	I _{FP}	1	A
	Power dissipation	P _d	75	mW
Output	Collector current	I _c	50	mA
	Collector-Emitter voltage	V _{ceo}	30	V
	Emitter-Collector voltage	V _{eco}	5	V
	Collector power dissipation	P _c	100	mW
Storage Temperature	T _{tsg}	-40 to +85	°C	
Operating Temperature	T _{op}	-25 to +85	°C	
Soldering Temperature	T _{sol}	260	°C	5 seconds max.

Electrical Specifications (Ambient Temperature: 25°C)

Item	Symbol	MIN.	TYP.	MAX.	Units	Conditions
Input	Forward voltage	V _F	1.0	1.15	1.3	V
	Reverse current	I _R			10	µA
	Peak wavelength	λ _p		940		nm
	View angle	2θ 1/2		35		Deg.
Output	Dark current	I _{ceo}		100	nA	V _{ce} =20V
	C-E saturation voltage	V _{ce(sat)}		0.15	0.4	V
Light current	I _{c(on)}	0.5	2.0		mA	V _{ce} =5V IF=20mA
Leakage current	I _{Leak}			1	µA	
Speed	Rise Time	tr		30		V _{ce} =5V I _c =1mA RL=1KΩ
	Fall Time	tf		25		