

SIT516

Photo Interrupter

The SIT516 is a transmission type photointerrupter combined high power infrared LED with high sensitive phototransistor, suitable for highly accurate position detecting.

Features

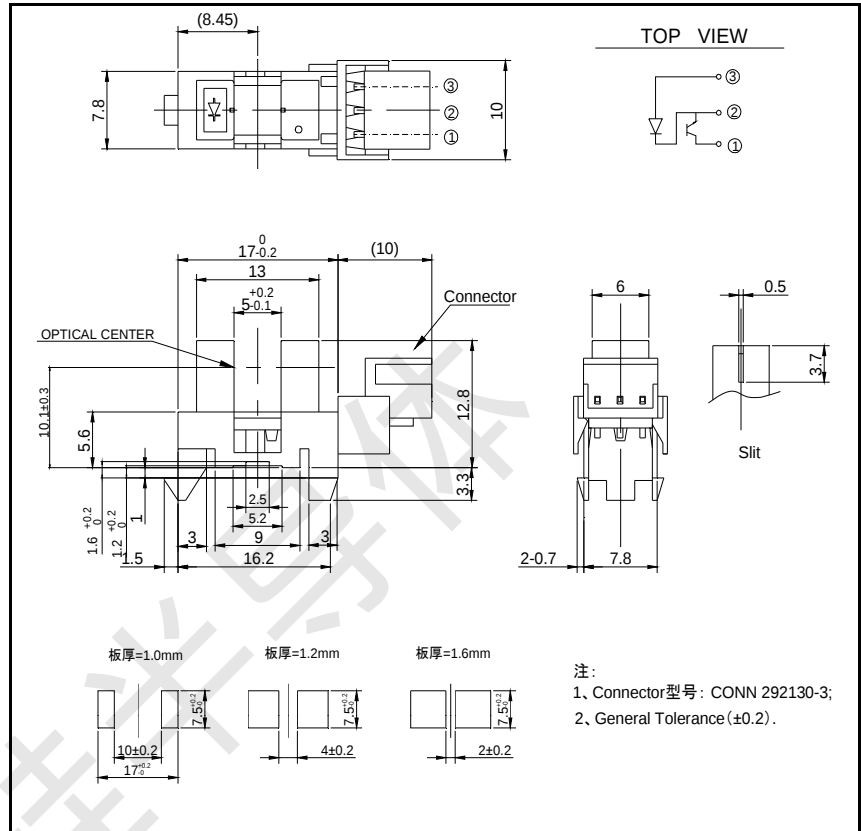
- Connector type AMP(JAPAN).Ltd.
- GAP:5mm
- Snap-in mount
- 3 kinds of mounting plate
thicknesses:1.0mm,1.2mm,1.6mm
- RoHS Compliance

Applications

- Copier
- Printer
- ATM
- Ticket vending machine

Dimensions

(Unit: mm)



MAXIMUM RATINGS

(Ta=25°C)

Item		Symbol	Ratings	Unit
Input	Power dissipation	P_D	100	mW
	Forward current	I_F	60	mA
	Reverse voltage	V_R	5	V
	Pulse Forward Current *1	I_{FP}	1	A
Output	Collector power dissipation	P_C	100	mW
	Collector current	I_C	40	mA
	Collector-Emitter Voltage	V_{CEO}	30	V
	Emitter-Collector voltage	V_{ECO}	5	V
Operating Temperature *2*3		$T_{opr.}$	-25~+95	°C
Storage Temperature *2*3		$T_{stg.}$	-30~+100	°C

*1 : Pulse width (tw) ≤ 100μs, Period (T) = 10msec.

*2 : No icebond or dew.

*3 : Disconnection or Connection of connector must be done under the standard temperature

The contents of this data sheet are subject to change without advance notice for the purpose of improvement.

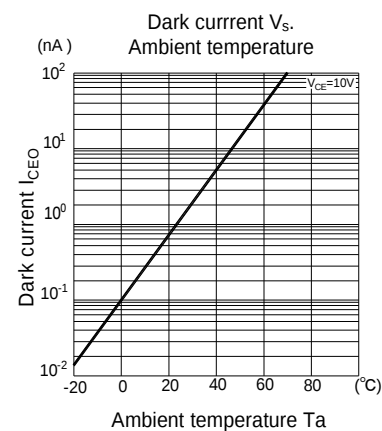
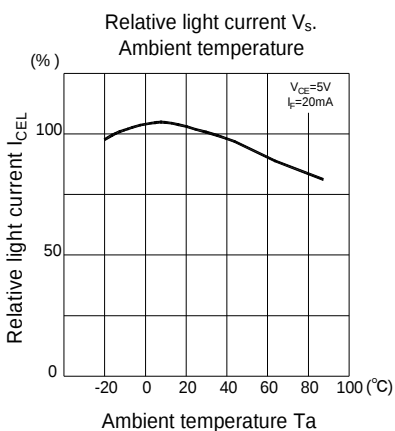
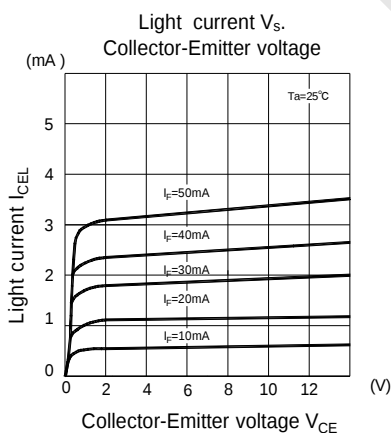
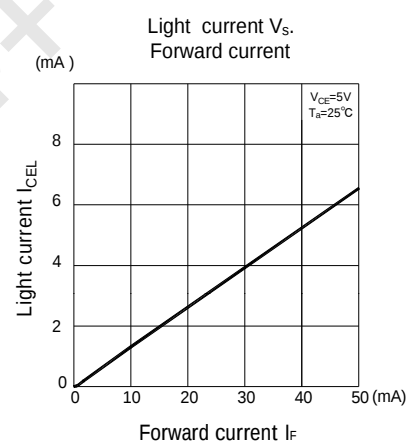
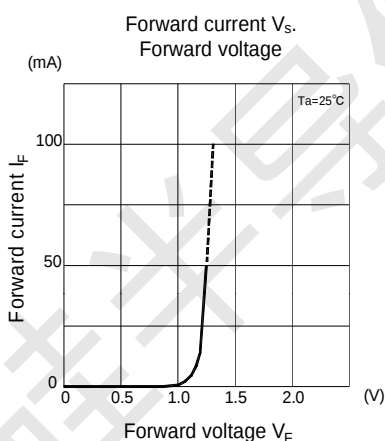
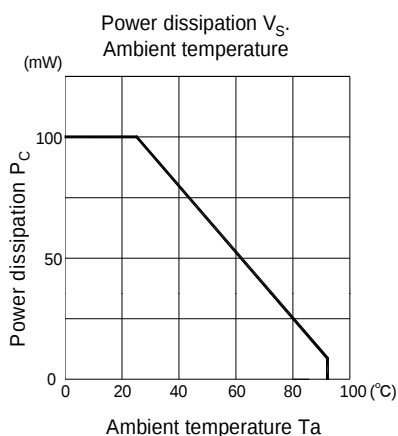
When using this product, would you please refer to the latest specifications.

Sept.2016

Electro-Optical Characteristics

(Ta=25°C)

Item		Symbol	Conditions	Min	Typ	Max	Unit
Input	Forward voltage	V_F	$I_F=20\text{mA}$	-	1.2	1.4	V
	Reverse current	I_R	$V_R=5\text{V}$	-	-	10	μA
	Peak wavelength	λ_P	$I_F=20\text{mA}$	-	940	-	nm
Output	Dark current	I_{CEO}	$V_{CE}=10\text{V}, E_V=0\text{lX}$	-	1	100	nA
Transmission	Light current	I_C	$I_F=20\text{mA}, V_{CE}=5\text{V}, \text{Non-shading}$	0.5	-	10	mA
	Leak current	I_{CEOD}	$I_F=20\text{mA}, V_{CE}=5\text{V}, \text{Shading}$	-	0.5	10	μA
	C-E saturation voltage	$V_{CE(sat)}$	$I_F=20\text{mA}, I_C=0.1\text{mA}$	-	0.15	0.4	V
	Rise time	tr	$I_C=2\text{mA}, V_{CC}=5\text{V}, R_L=100\Omega$	-	4	-	μs
	Fall time	tf		-	5	-	μs



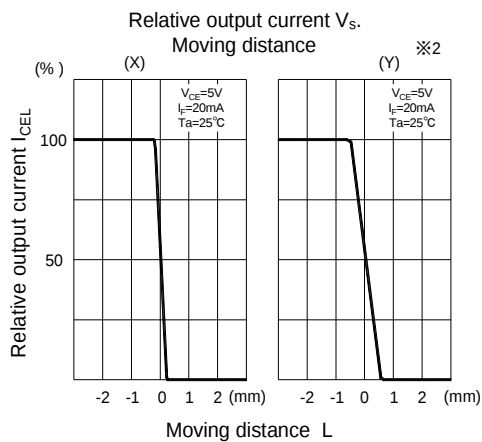
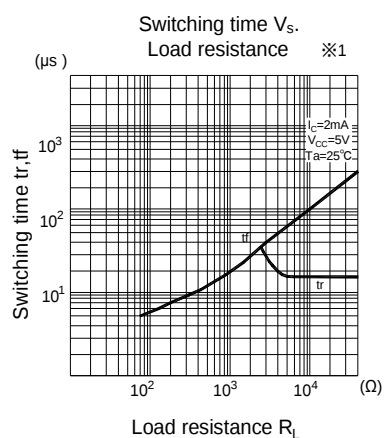
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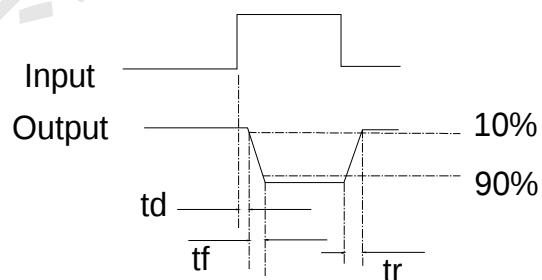
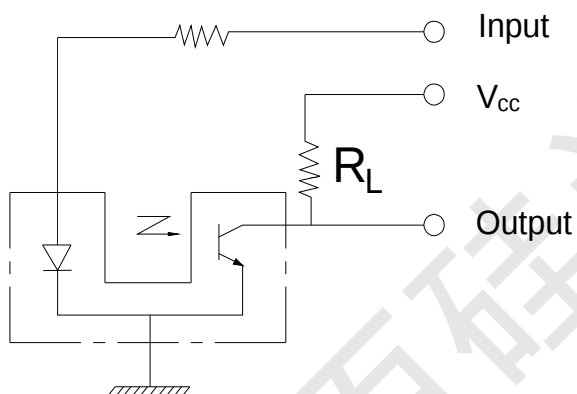
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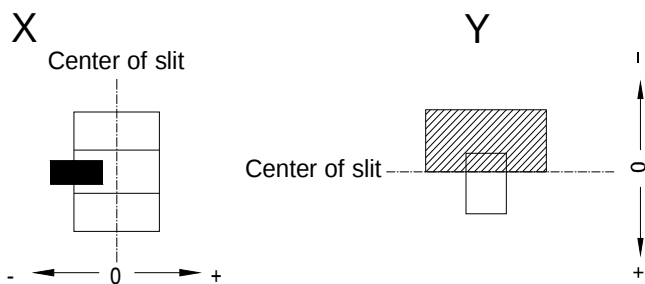
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※ 1 Switching time measurement circuit



※2 Method of measuring position detection characteristic



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Packing Specification

- 1.Fixed quantity (max 500pcs) of the products are packed into plastic bag
- 2.Four bags of the products are put into #2 box(max 2000pcs)
- 3.Two #2 boxes are put into #3 box(max 4000pcs)
- 4.Packing slit is pasted on #3 box

