

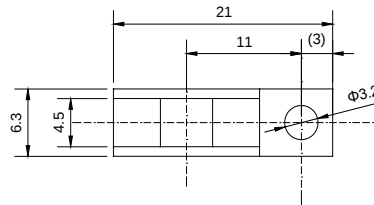
SIT512-C1

Photo Interrupter

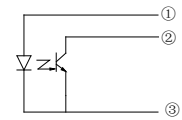
Dimensions

(Unit: mm)

The SIT512-C1 is a high performance transmissive type photointerrupter, combines high-output GaAs IRED with high sensitive phototransistor.



SCHEMATIC

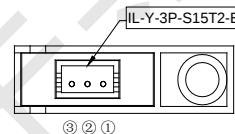
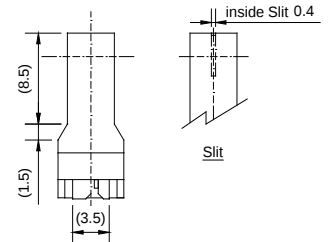
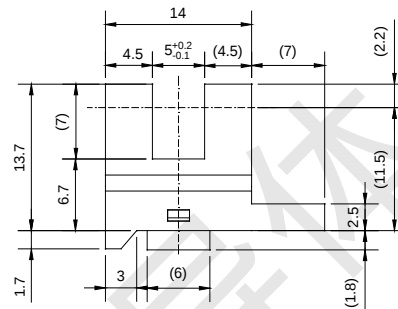


Features

- Dustproof type
- GAP:5.0mm
- Screw mount type
- RoHS Compliance

Applications

- Printers
- ATM
- Ticket vending machines
- Copiers



* General Tolerance(±0.2mm)

Maximum Ratings

(Ta=25°C)

Item		Symbol	Rating	Unit
Input	Power dissipation	P_D	100	mW
	Forward current	I_F	50	mA
	Reverse voltage	V_R	5	V
	Pulse forward current ^{*1}	I_{FP}	1	A
Output	Collector current	I_C	20	mA
	Collector-Emitter voltage	V_{CEO}	30	V
	Emitter-Collector voltage	V_{ECO}	5	V
Operating temperature range ^{*2}		Topr.	-25~85	°C
Storage temperature range ^{*2}		Tstg.	-40~85	°C
Soldering temperature ^{*3}		Tsol.	260	°C

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

*2. No icebound or dew.

*3. The soldering should be 1.2mm away from bottom of the holder t=within 3s

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.

Spet.2014

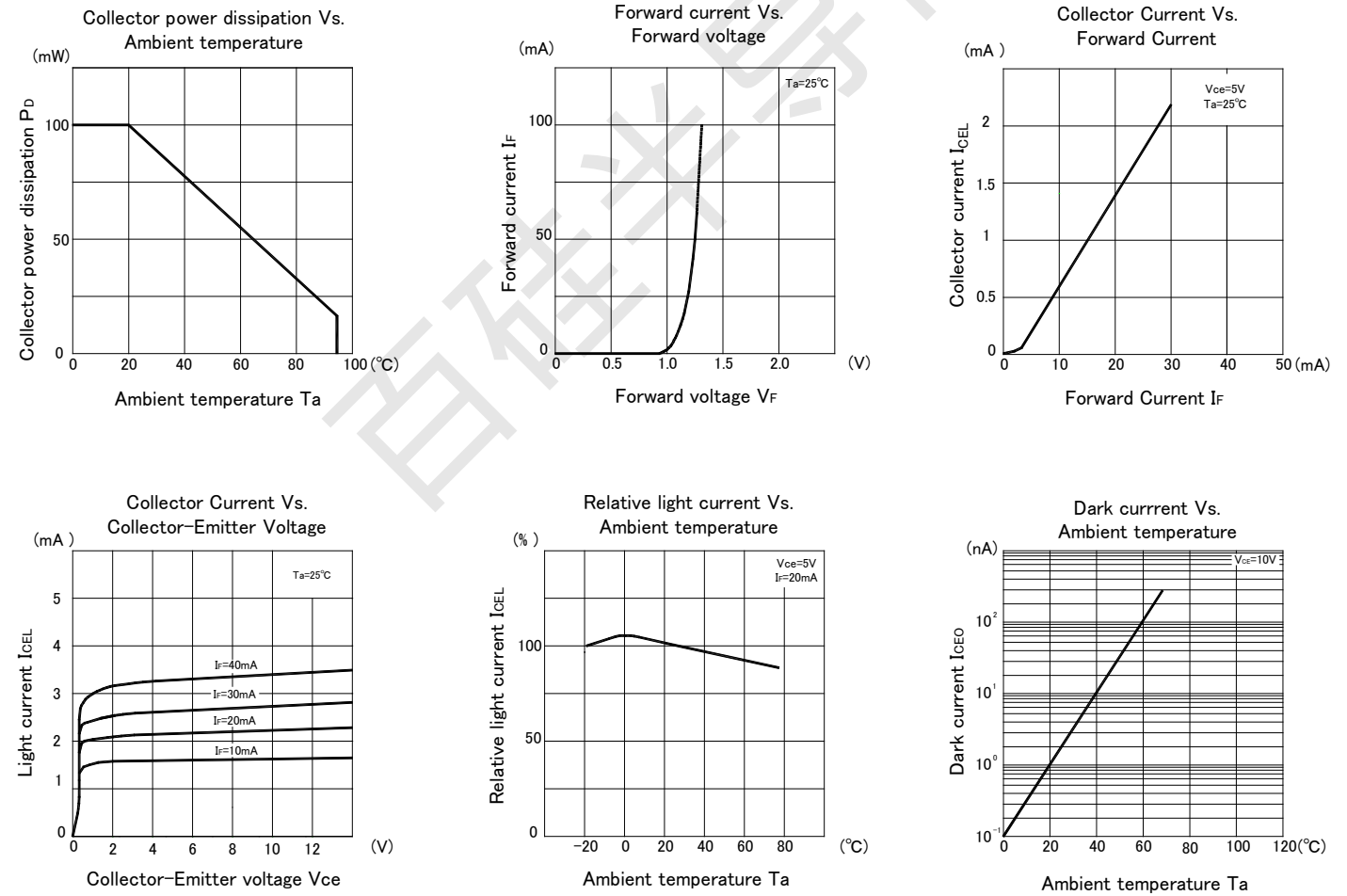
Photo Interrupter

SIT512-C1

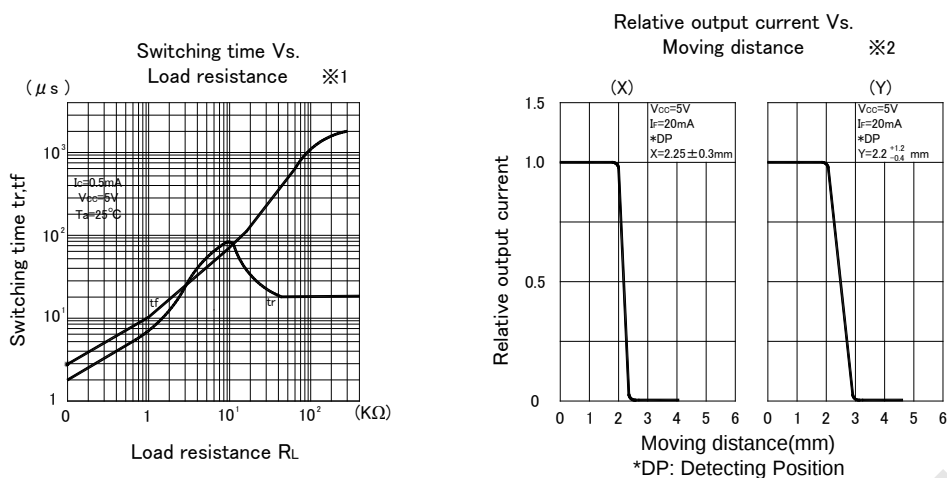
Elector-Optical Characteristics

(Ta=25°C)

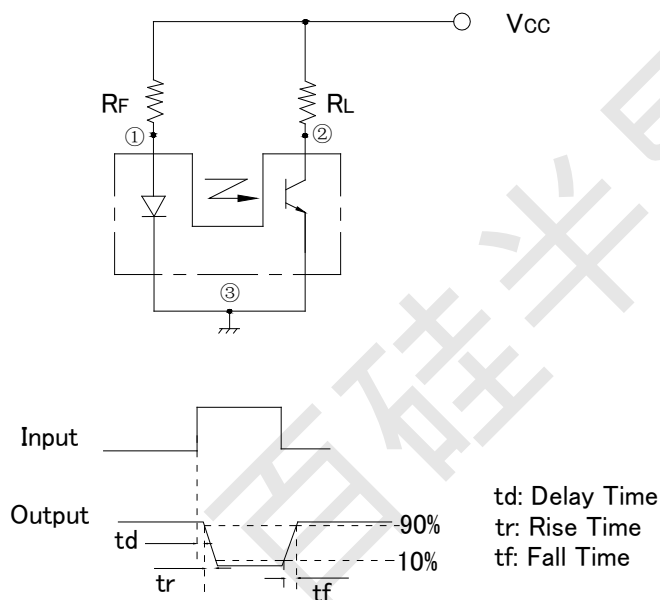
Item		Symbol	Conditions	Min.	Typ.	Max.	Unit
Input	Forward voltage	V_F	$I_F=20\text{mA}$	-	1.2	2.0	V
	Reverse current	I_R	$V_R=5\text{V}$	-	-	100	μA
	Peak wavelength	λ_P	$I_F=20\text{mA}$	-	940	-	nm
Output	Dark current	I_{CEO}	$V_{CE}=10\text{V}$ $E_V=0\text{lx}$	-	1	100	nA
	Peak Wavelength	λ_P	-	-	880	-	nm
Transfer characteristics	Collector current	I_{CEL}	$I_F=20\text{mA}$ $V_{CE}=5\text{V}$ 入光状态 (Non-Shading)	0.5	-	8.0	mA
	C-E sat.voltage	$V_{CE(sat)}$	$I_F=20\text{mA}$ $I_C=0.5\text{mA}$	-	0.15	0.4	V
Response time	Rise time	t_r	$I_C=2\text{mA}$ $V_{CC}=5\text{V}$ $R_L=100\ \Omega$	-	4	-	μs
	Fall time	t_f		-	5	-	μs



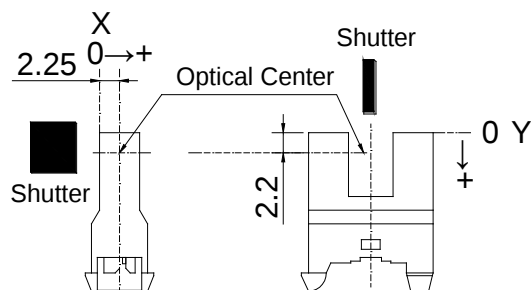
The contents of this data sheet are subject to change without advance notice for the purpose of improvement. When using this product, would you please refer to the latest specifications. Spet.2014



※1 Switching time measurement circuit

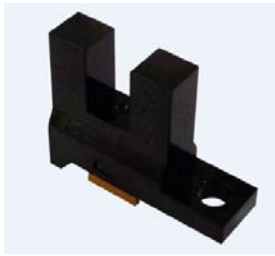


※2 Method of measuring position detection characteristic

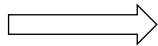


Packing Specification

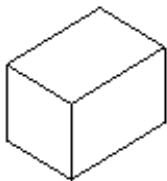
- 1.Fixed quantity (max 1000pcs) of the products are packed into plastic bags
- 2.Five bags of the products are put into #2 Box(max 5000pcs)
3. Two #2 Boxes are put into #3 Box(max 10000pcs)
- 4.Paste packing slit



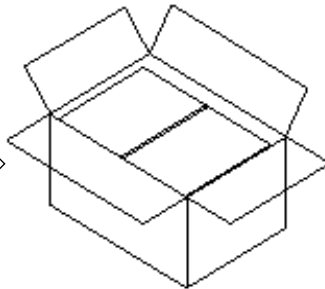
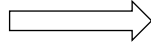
SIT512-C1 (max 1000pcs)



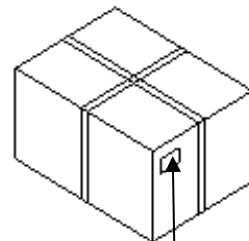
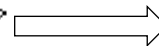
plastic bag (300*380)*5



#2 box*2



#3 box(max 10000 pcs)



packing slit

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.

Spet.2014