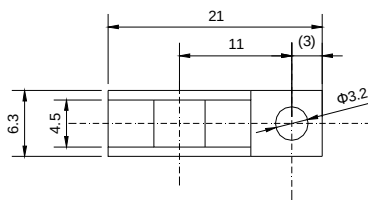


SIT512-CM Photo Interrupter

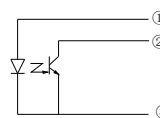
Dimensions

(Unit: mm)

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



SCHEMATIC

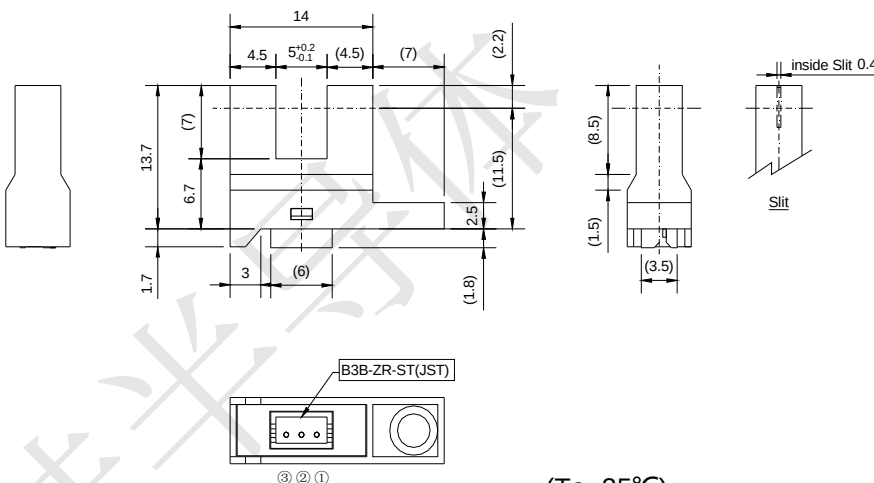


Features

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

Applications

- Printers
- ATM
- Ticket vending machines
- Copiers



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(t_w) $\leq 100\mu s$, Period(T)=10msec

*2. No icebound or dew.

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

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Nov.2017

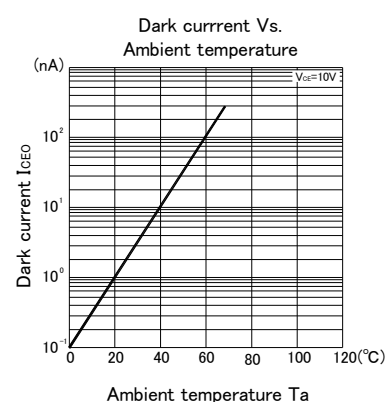
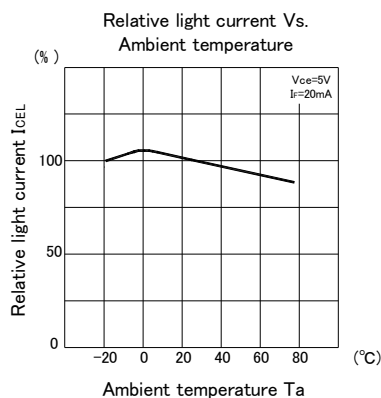
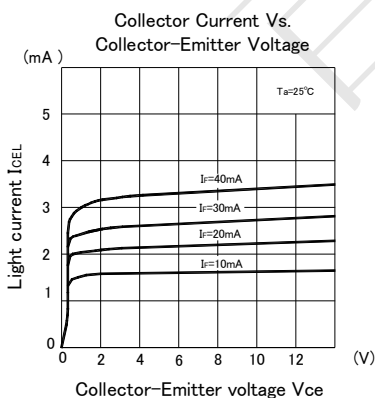
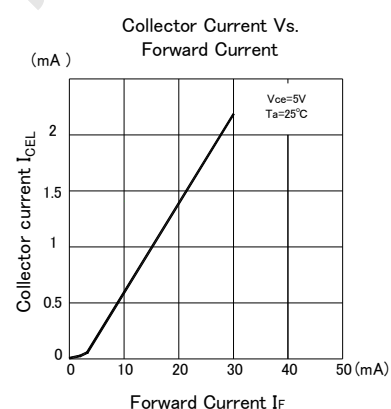
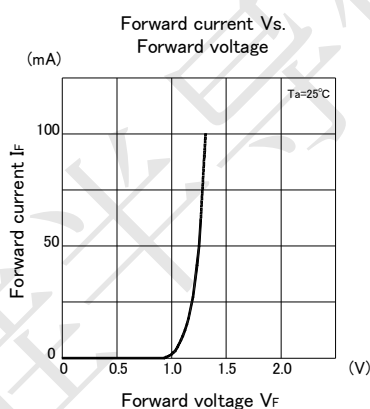
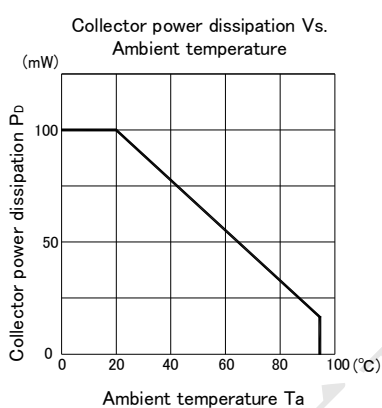
Photo Interrupter

SIT512-CM

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)	1.0	-	3.4	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

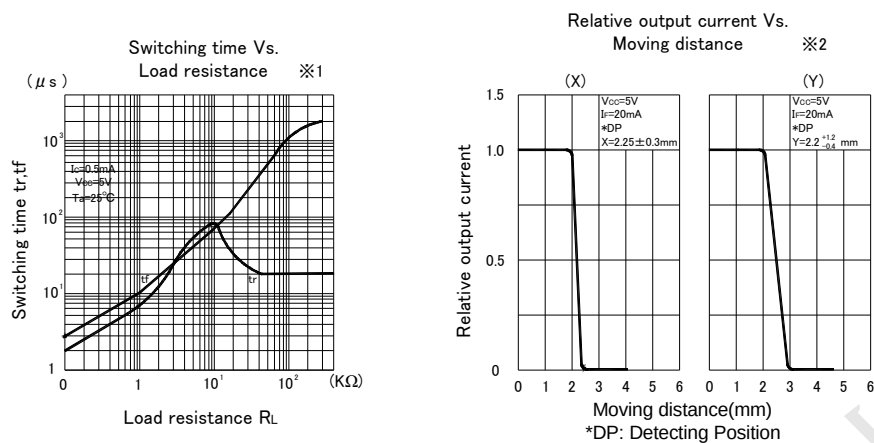


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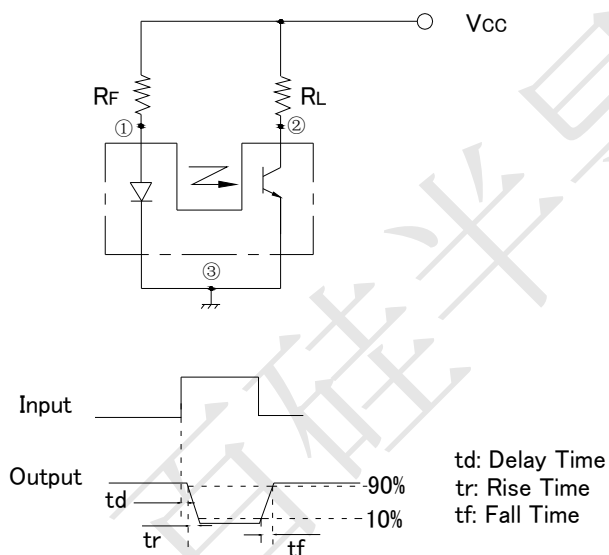
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Photo Interrupter

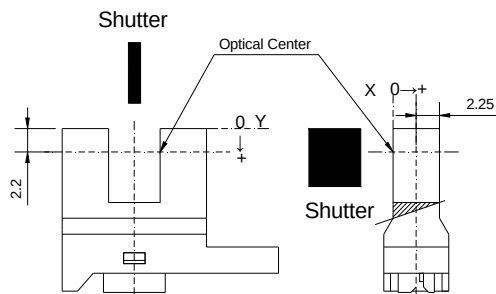
SIT512-CM



※1 Switching time measurement circuit



※2 Method of measuring position detection characteristic

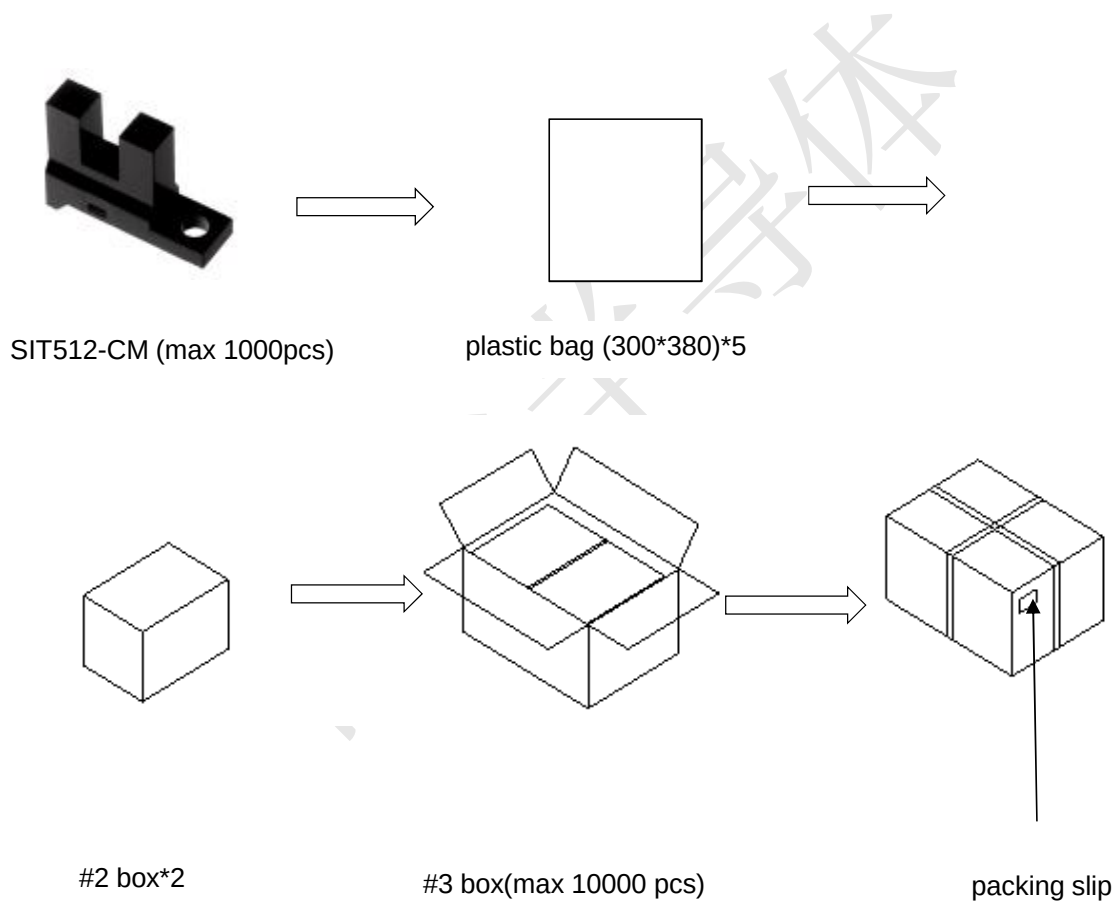


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Packing Specification

- 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 slip



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