

SITA01-C

Photo Interrupter

The SITA01 photointerrupters high-performance standard type, combines high-output GaAs IRED with high sensitive phototransistor.

Features

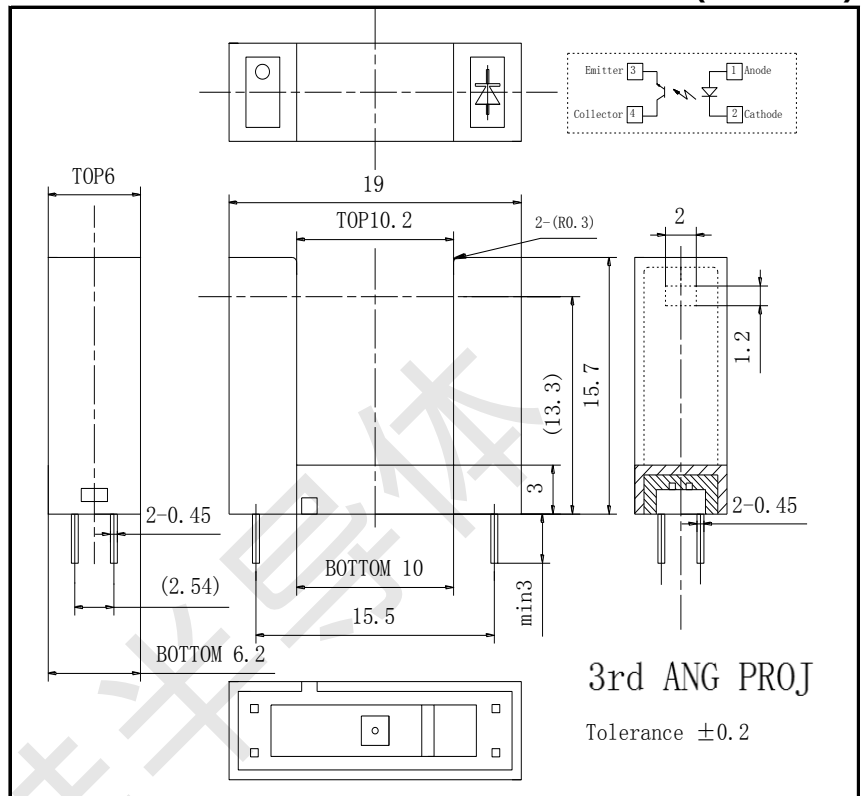
- Dustproof type
- GAP:10mm
- Side Slit type

Applications

- Printers
- Plotters
- Ticket vending machines
- Amusement machines
- Auto stampers

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		$T_{opr.}$	-20~+85 °C
Storage Temperature *2		$T_{stg.}$	-30~+85 °C
Soldering Temperature *3		$T_{sol.}$	260 °C

*1 : Pulse width (tw) $\leq 100\mu s$, Period (T) = 10msec.

*2 : No icebond or dew.

*3 : The soldering should be 1mm away from bottom of the holder t = within 5sec.

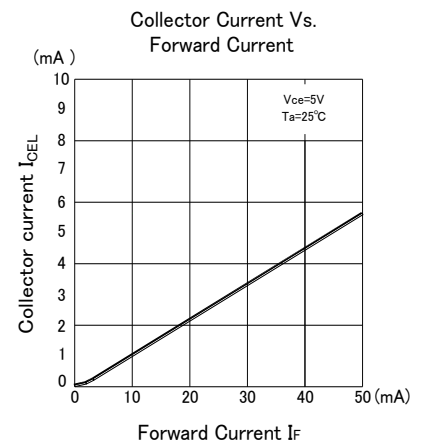
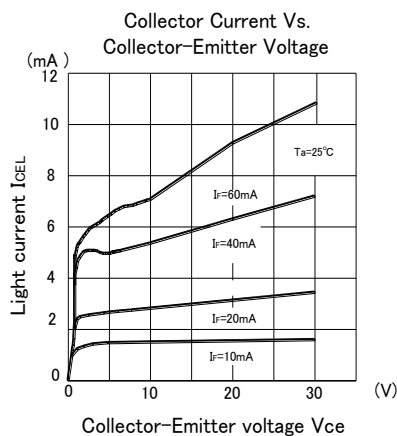
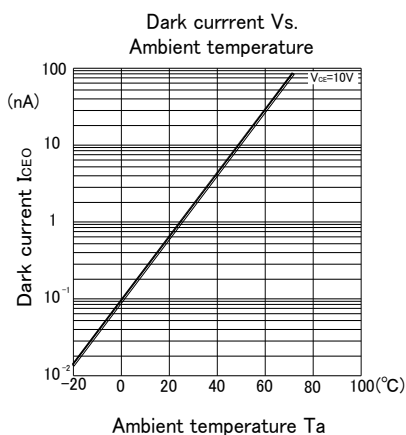
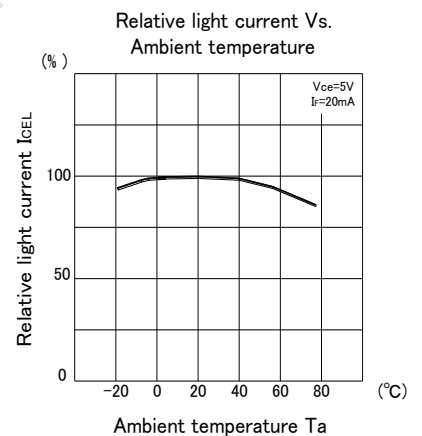
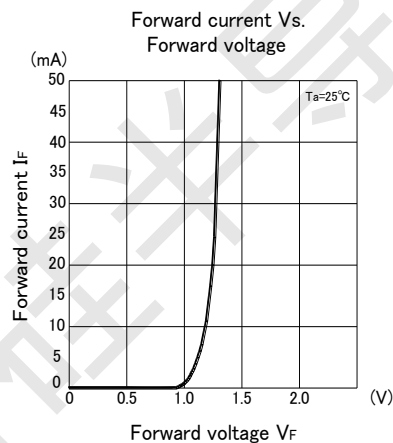
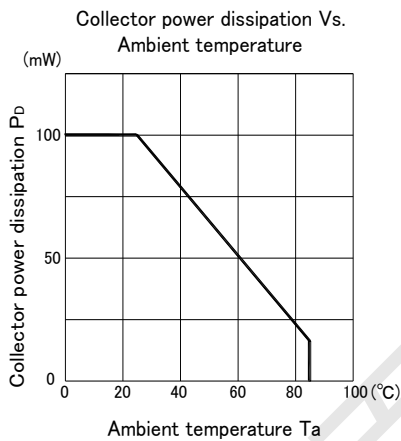
The contents of this data sheet are subject to change without advance notice for the purpose of improvement.

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

Electro-Optical Characteristics

(Ta=25°C)

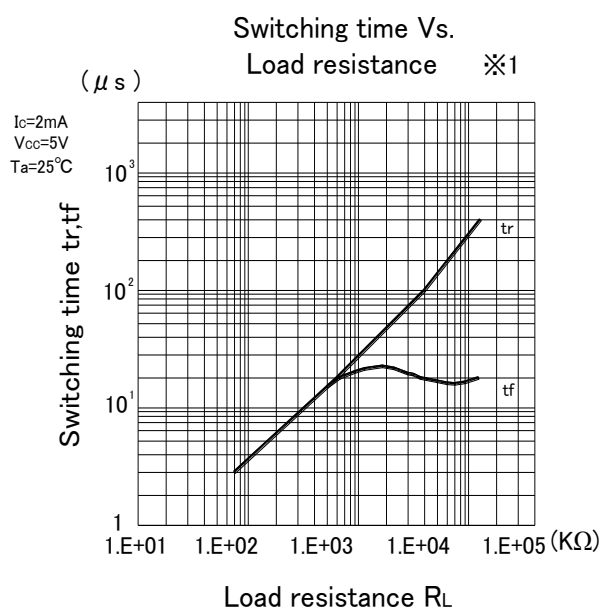
Item		Symbol	Conditions	Min	Typ	Max	Unit
Input	Forward voltage	V_F	$I_F=20\text{mA}$	-	1.2	1.4	V
	Reverse current	I_R	$V_R=5\text{V}$	-	-	10	μA
	Peak wavelength	λ_p	-	-	940	-	nm
Output	Dark current	I_{CEO}	$V_{CE}=10\text{V}, E_V=0\text{lx}$	-	1	100	nA
Transmission	Light current	I_C	$I_F=20\text{mA}, V_{CE}=5\text{V}, \text{Non-shading}$	1	-	-	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



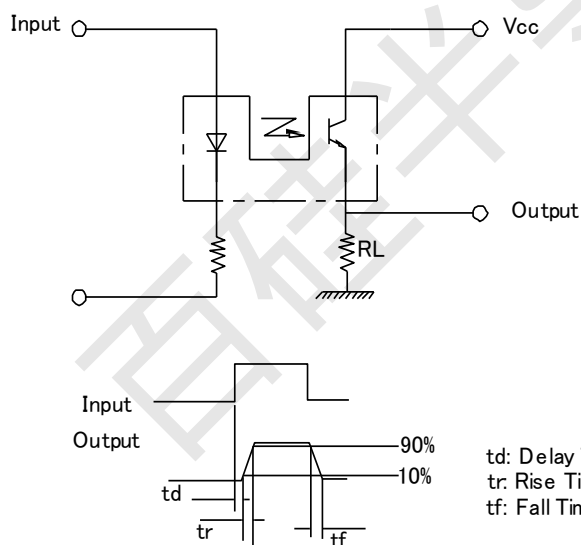
The contents of this data sheet are subject to change without advance notice for the purpose of improvement.

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

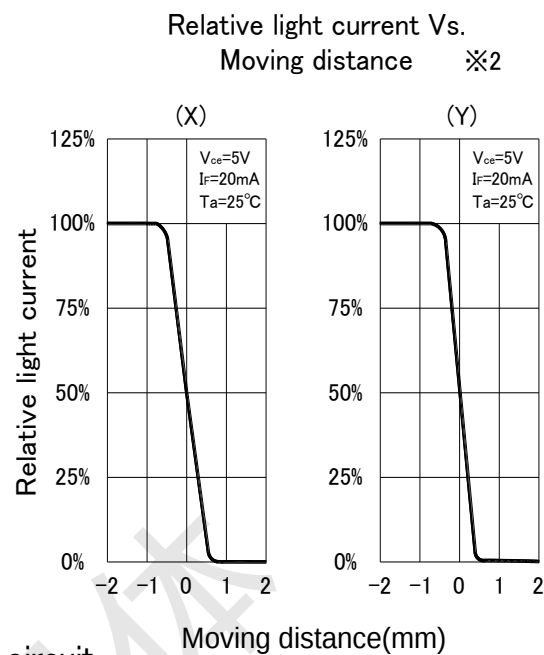
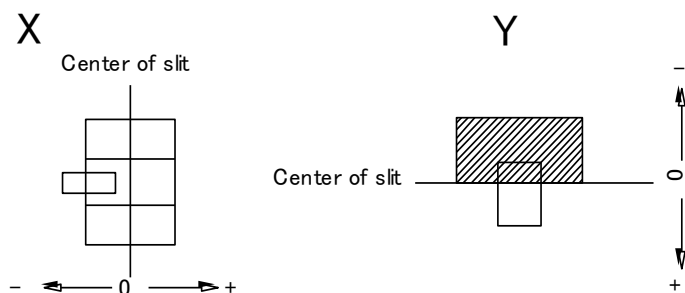
SITA01-C



*1 Switching time measurement circuit



*2 Method of measuring position detection characteristic



Packing Specification

- 1.Fixed quantity (max 200pcs) of the products are packed into plastic bag
- 2.Ten bags of the products are put into #2 box(max 2000pcs)
- 3.Two #2 boxes are put into #3 box(max 4000pcs)
- 4.Packing slip is pasted on #3 box

