NEW PRODUCT

KODENSHI AUK

SIT208
Photo Interrupter

The SIT208 is a photointerrupter high-performance standard type, combines high-output GaAs IRED with high sensitive phototransistor.

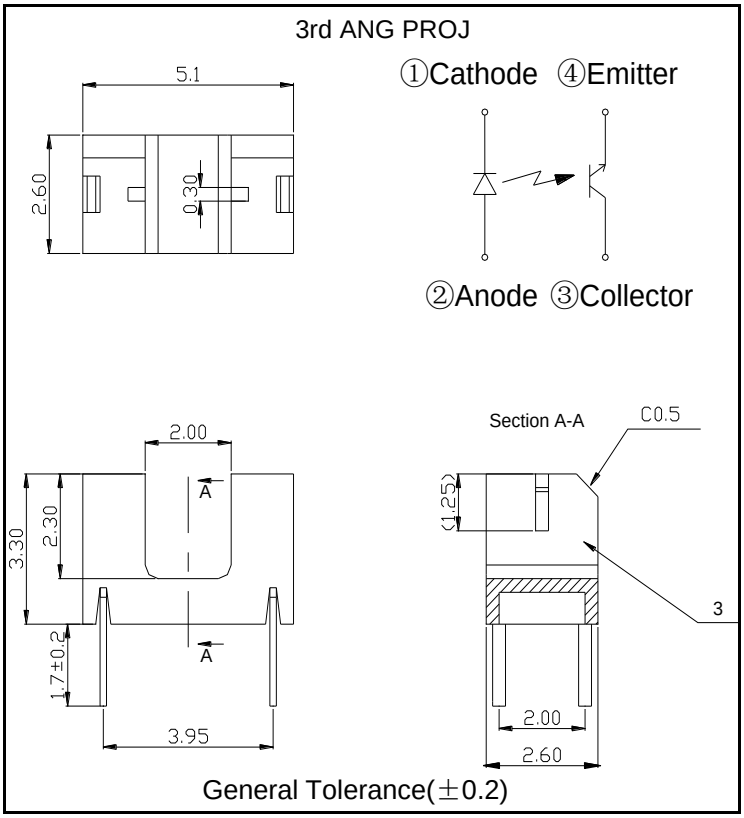
Features

- PCB direct mount type
- GAP:2.0mm
- Ultra small size
- High resolution(slit 0.3mm)

Application

·Camera
·Encoders
·Digital cameras
·Digital video cameras

Dimensions (Unit: mm)



Maximum Ratings (Ta=25℃)

Item		Symbol	Ratings	Unit
Input	Power dissipation	P_D	75	mW
	Forward current	I_F	50	mA
	Reverse voltage	V_R	5	V
	Pulse forward current *1	I_{FP}	0.5	A
Output	Collector power dissipation	P_C	75	mW
	Collector current	I_C	20	mA
	Collector-Emiter voltage	V_{CEO}	30	V
	Emiter-Collector voltage	V_{ECO}	5	V
Operating temperature *2		Topr.	-20～+85	°C
Storage tempertature *2		Tstg.	-30～+100	°C
Soldering tempertature *3		Tsol.	260	°C

* 1 pulse width:tw≤100μs 周期：T=10ms
* 2 No icebound or dew
* 3 For MAX.5 seconds at the position of 1mm from the resin edge

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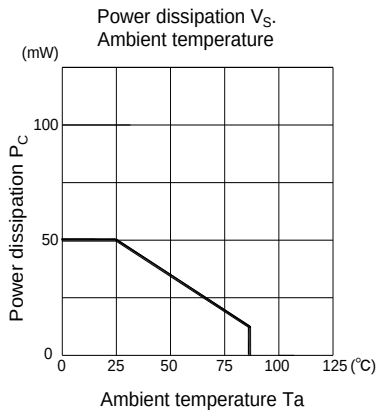
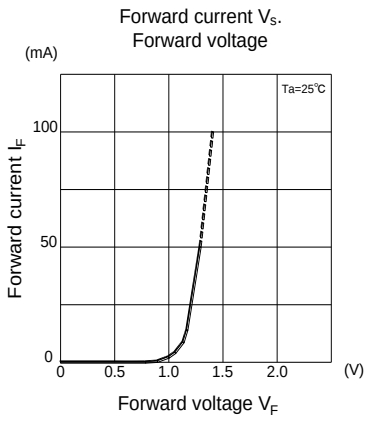
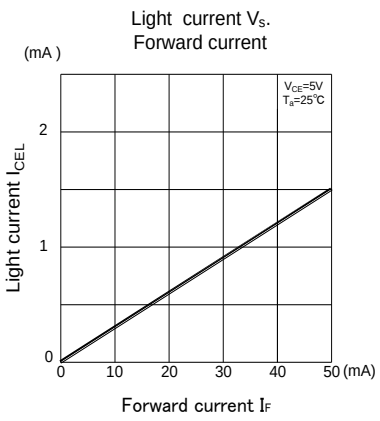
Elector-Optical Characteristics

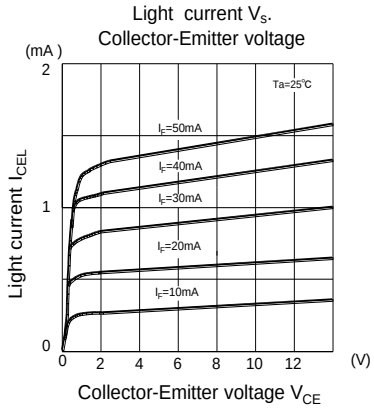
(Ta=25℃)

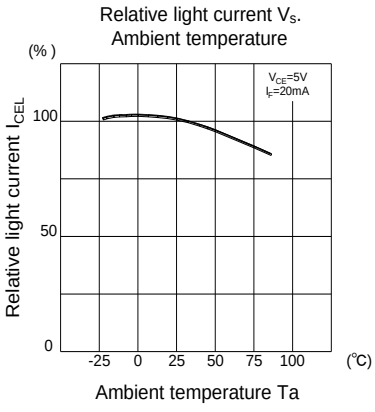
Item		Symbol	Conditions	Min	Typ	Max	Unit
Input	Forward voltage	V_F	I_F=20mA	-	1.2	1.4	V
	Reverse current	I_R	V_R=5V	-	-	10	μA
	Peak wavelength	λ_p	I_F=20mA	-	940	-	nm
Output	Dark current	I_{CEO}	V_{CE}=10V,E_V=0lx	-	1	100	nA
Transfer characteristics	Light current	I_{CEL}	I_F=20mA,V_{CE}=5V,Non-shading	0.25	-	1.8	mA
	Leak current	I_{CEOD}	I_F=20mA,V_{CE}=5V,Shading	-	0.5	10	μA
	C-E saturation voltage	$V_{CE(sat)}$	I_F=10mA,I_C=0.03mA	-	0.15	0.4	V
	Rise time	tr	I_C=1mA,V_{CC}=5V,R_L=100Ω	-	10	-	μs
	Fall time	tf		-	10	-	μs

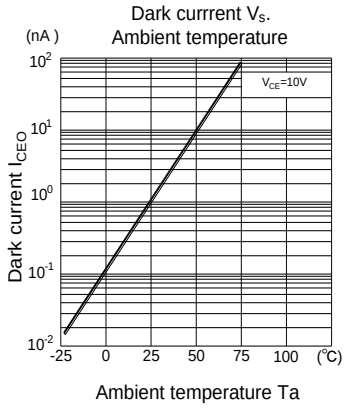












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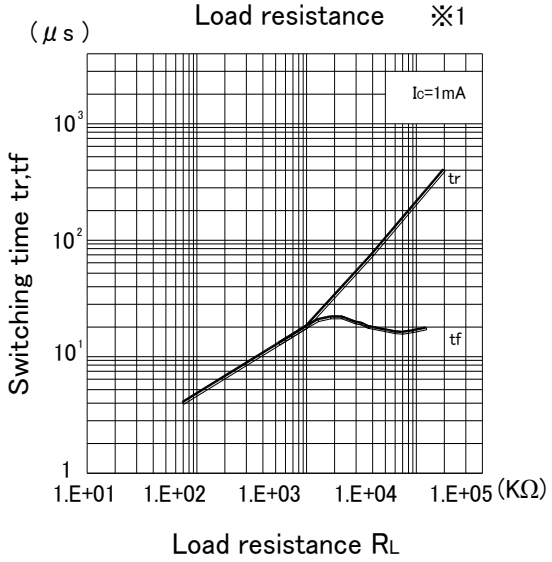
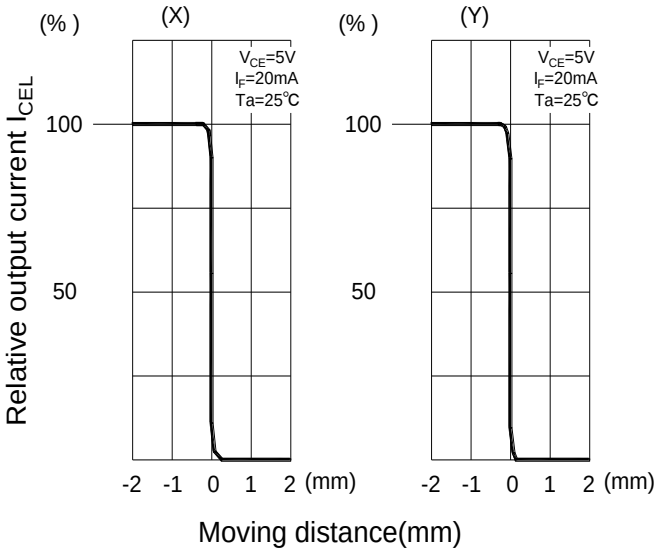
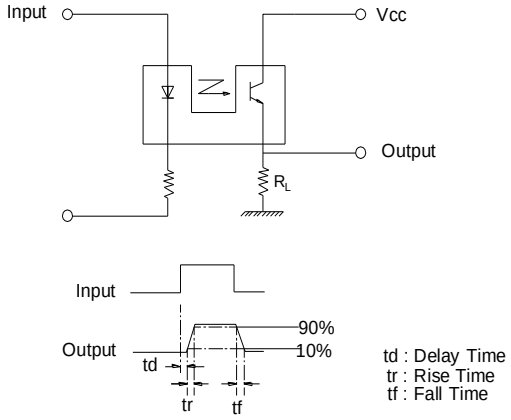
Switching time Vs.
Load resistance ※1



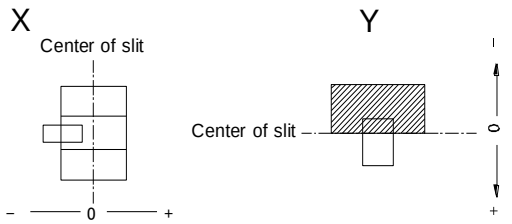
Relative light current Vs.
Moving distance ※2



*1 Switching time measurement circuit



*2 Method of measuring position detection characteristic



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Packing Specification

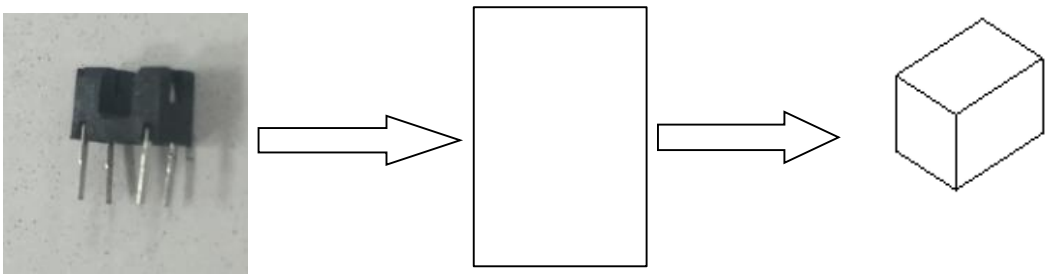
1.Fixed quantity (max 200pcs) of the products are packed into plastic bag

2.Ten bags of the products are put into #1 box

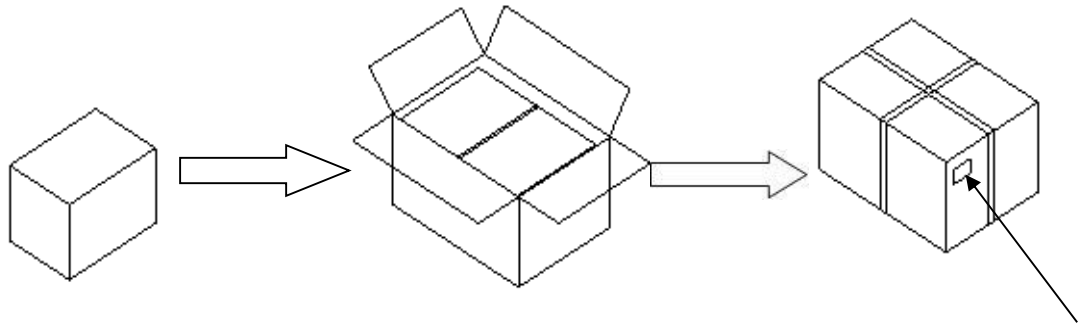
3.Ten #1 boxes are put into #2 box(max 20000pcs)

4.Two #2 boxes are put into #3 box(max 40000pcs)

5.Packing slit is pasted on #3 box



SIT208 (max 200pcs)　　plastic bag *10　　#1 box*10



#2 box*2　　#3 box　　packing slit