

SIT515

Photo Interrupter

SIT515 is Transmission type photointerrupter combined high power GaAs IRED with high sensitive phototransistor.

Features

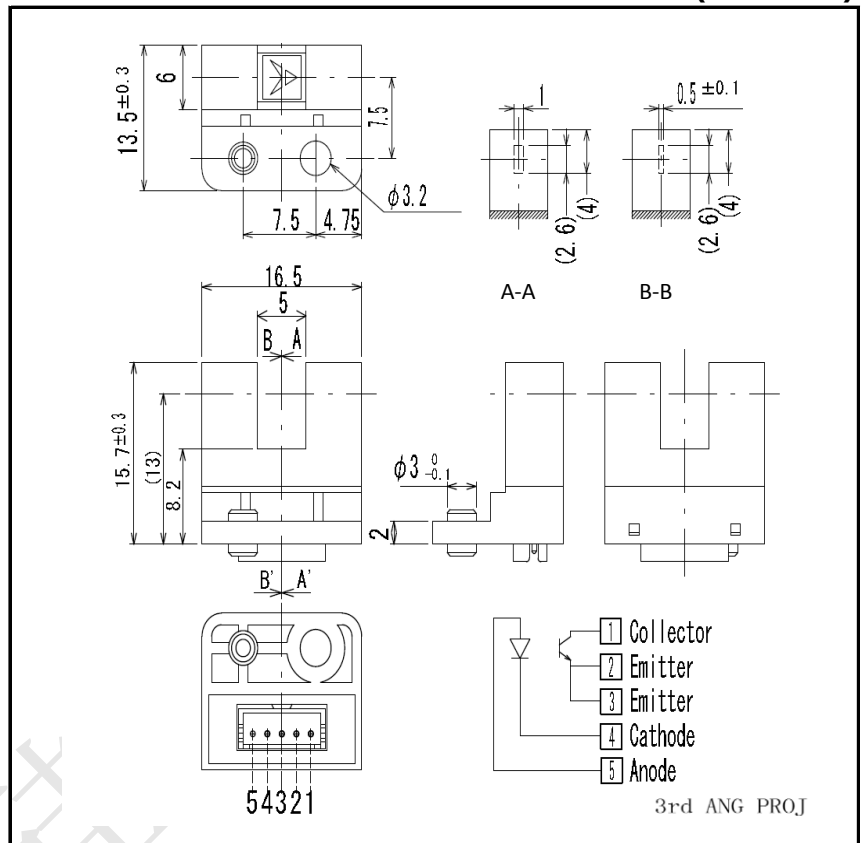
- Supply voltage 5V
- GAP:5.0mm
- Double-molded structure
- Scerw stop ornament in POM
- Connector: JST B5B-ZR

Applications

- Copiers, Printers, ATM
- Amusement machines

Dimensions

(Unit: mm)



Maximum Ratings

(Ta=25°C)

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}	1	A
Output	Collector power dissipation	P_C	75	mW
	Collector current	I_C	20	mA
	Collector-Emitter Voltage	V_{CEO}	30	V
	Emitter-Collector voltage	V_{ECO}	5	V
Operating Temperature *2		Topr.	-20~+85	°C
Storage Temperature *2		Tstg.	-30~+85	°C

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

*2 : No icebond or dew.

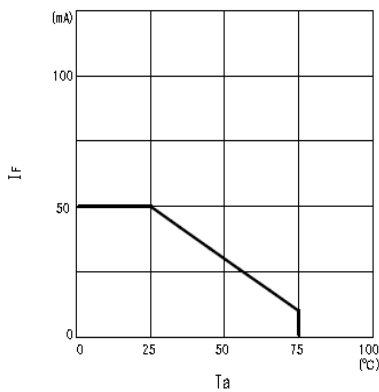
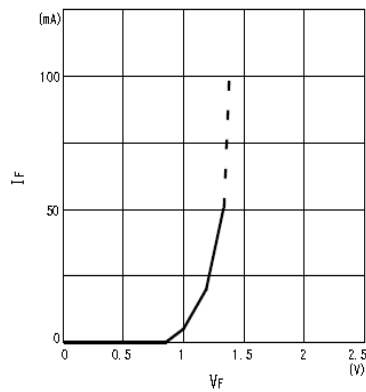
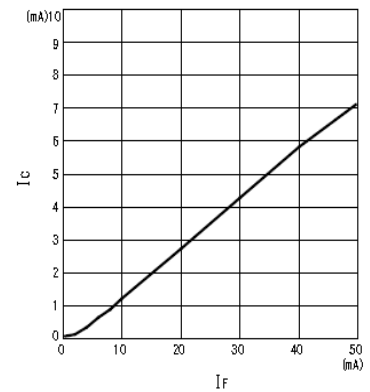
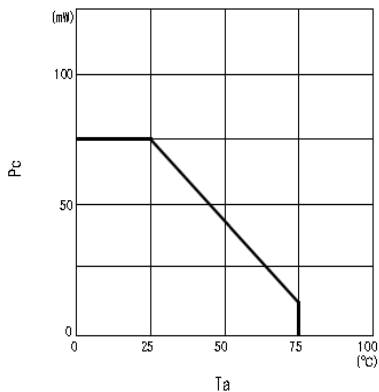
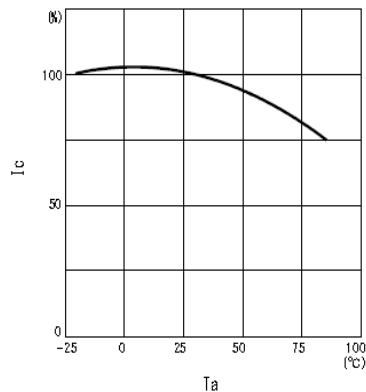
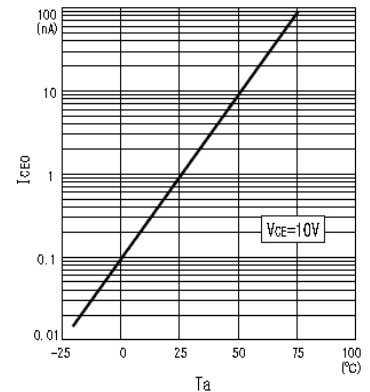
The contents of this data sheet are subject to change without advance notice for the purpose of improvement.

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	$I_F=20\text{mA}$	-	940	-	nm
Output	Dark current	I_{CEO}	$V_{CE}=10\text{V}, E_V=0\text{lx}$	-	1	100	nA
Trans mission	Light current	I_C	$I_F=20\text{mA}, V_{CE}=5\text{V}, \text{Non-shading}$	1	-	10	mA
	Leak current	I_{CEOD}	$I_F=20\text{mA}, V_{CE}=5\text{V}, \text{Shading}$	-	-	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	$I_C=2\text{mA}, V_{CC}=5\text{V}, R_L=10\text{K}\Omega$	-	40	-	μs
	Fall time	tf		-	130	-	μs

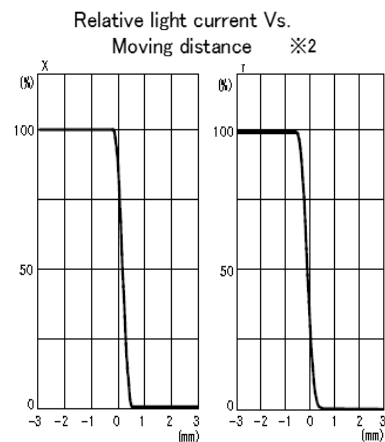
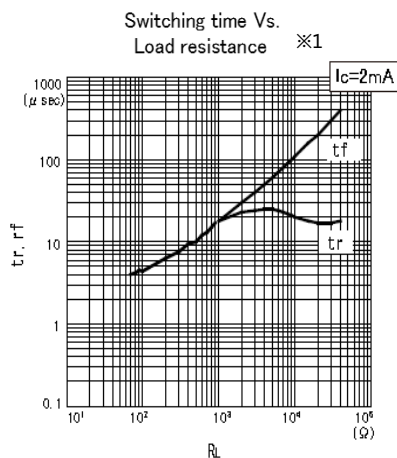
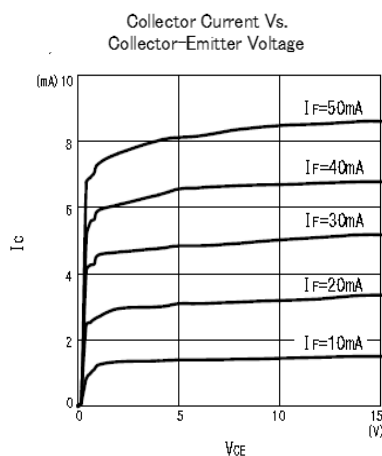
Forward current Vs.
Ambient temperatureForward current Vs.
Forward voltageCollector Current Vs.
Forward CurrentCollector power dissipation Vs.
Ambient temperatureRelative light current Vs.
Ambient temperatureDark current Vs.
Ambient temperature

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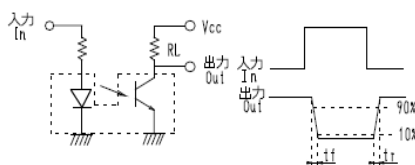
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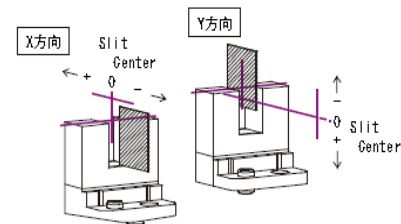
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*1 Switching Time Measurement Circuit



*2 Method of Measuring Position Detection Characteristic



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Packing Specification

- 1.Fixed quantity (max 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 slit is pasted on #3 box

