

Photo Interrupter

KIT5033C

Description

The KIT5033C is a photo interrupter high-performance standard type, combines high-output GaAs IRED with high sensitive phototransistor..

Features

- Snap-in mount
- GAP : 5.0mm
- 3 kinds of mounting plate thicknesses :
1.0mm, 1.2mm, 1.6mm
- RoHS compliant



Applications

- Printers.
- Copiers
- ATM
- Ticket vending machines

Absolute Maximum Ratings (T_a=25°C, Unless otherwise specified)

Characteristic		Symbol	Ratings	Unit
Input	Power Dissipation	P _D	75	mW
	Forward Current	I _F	50	mA
	Reverse Voltage	V _R	6	V
	Peak Forward Current ^{*1}	I _{FP}	1	A
Output	Collector Current	I _C	20	mA
	Collector-Emitter Voltage	V _{CEO}	35	V
	Emitter-Collector Voltage	V _{ECO}	6	V
Operating Temperature ^{*2}		T _{opr}	-30 ~ +95	°C
Storage Temperature ^{*2}		T _{stg}	-40 ~ +100	°C

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

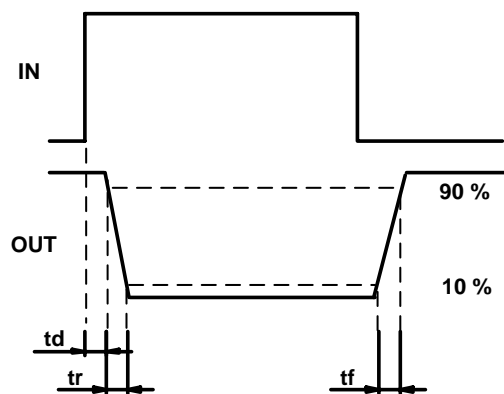
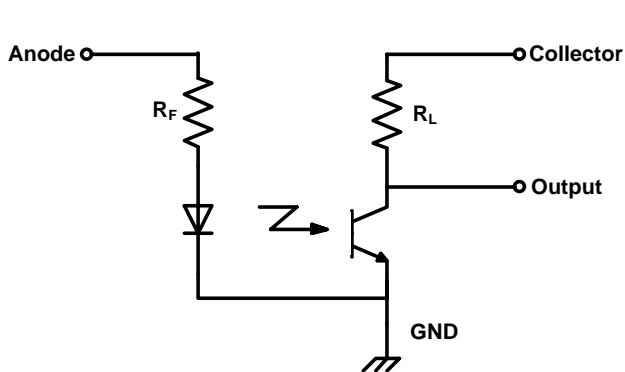
*2 : No icebond or dew.

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Electrical Characteristics (T_a=25°C)

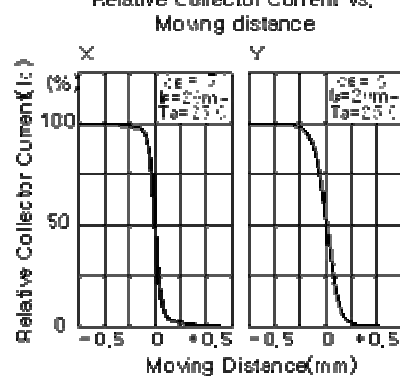
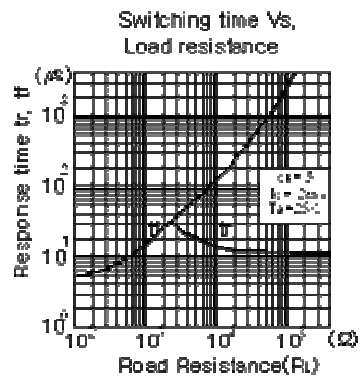
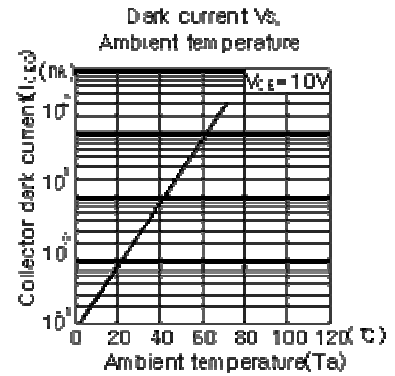
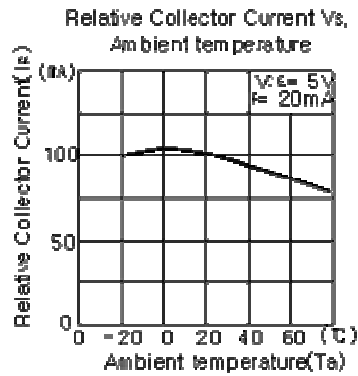
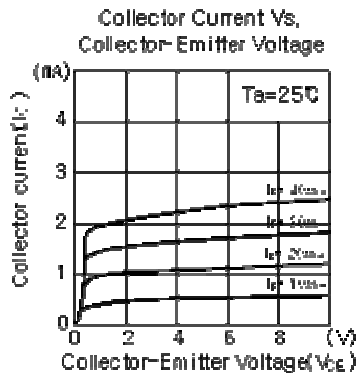
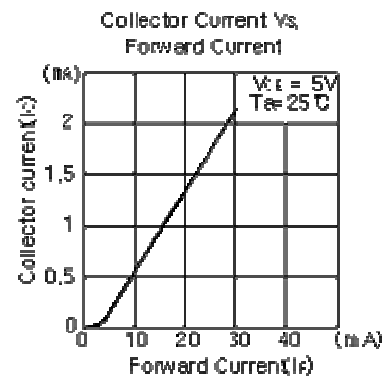
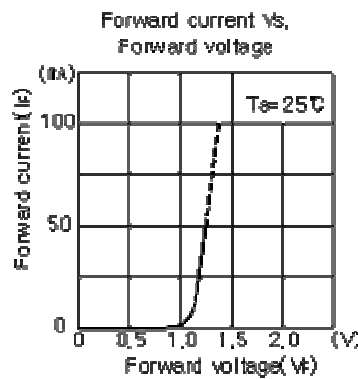
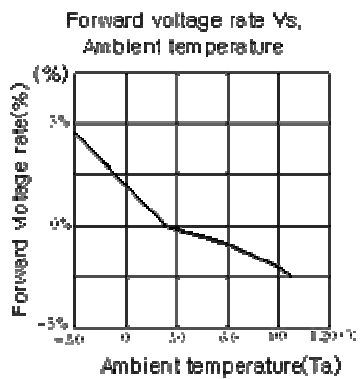
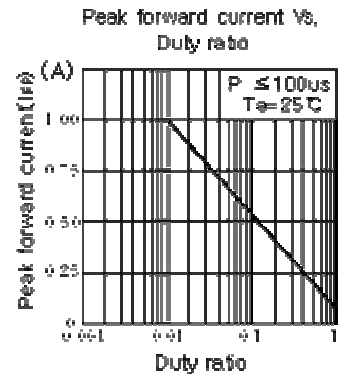
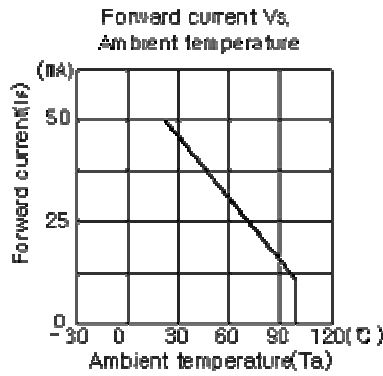
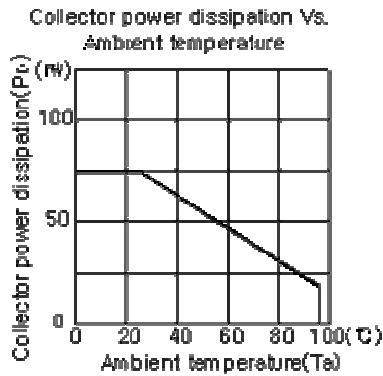
Characteristic		Symbol	Test Condition	Min.	Typ.	Max.	Unit
Input	Forward Voltage	V _F	I _F =20mA	-	1.2	1.4	V
	Peak Wavelength	λ _p	I _F =20mA	-	940	-	nm
	Reverse Current	I _R	V _R =5V	-	-	10	uA
Output	Dark Current	I _{CEO}	V _{CE} =10V, E=0lux	-	1	100	nA
	Peak Wavelength	λ _p	-	-	880	-	nm
Transfer Characteristics	Collector Current	I _C	V _{CE} =5.0V, I _F =20mA	0.5	-	15.0	mA
	C-E Saturation Voltage	V _{CE(sat)}	I _C =0.5mA, I _F =20mA	-	-	0.4	V
Response Time	Rise Time	t _r	V _{CC} =5.0V, I _C =2mA RL=100Ω	-	3	15	usec
	Fall Time	t _f		-	4	20	usec

* Circuit for Measuring Response Time

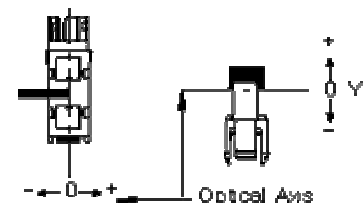


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Characteristics



Method of measuring position detection characteristic

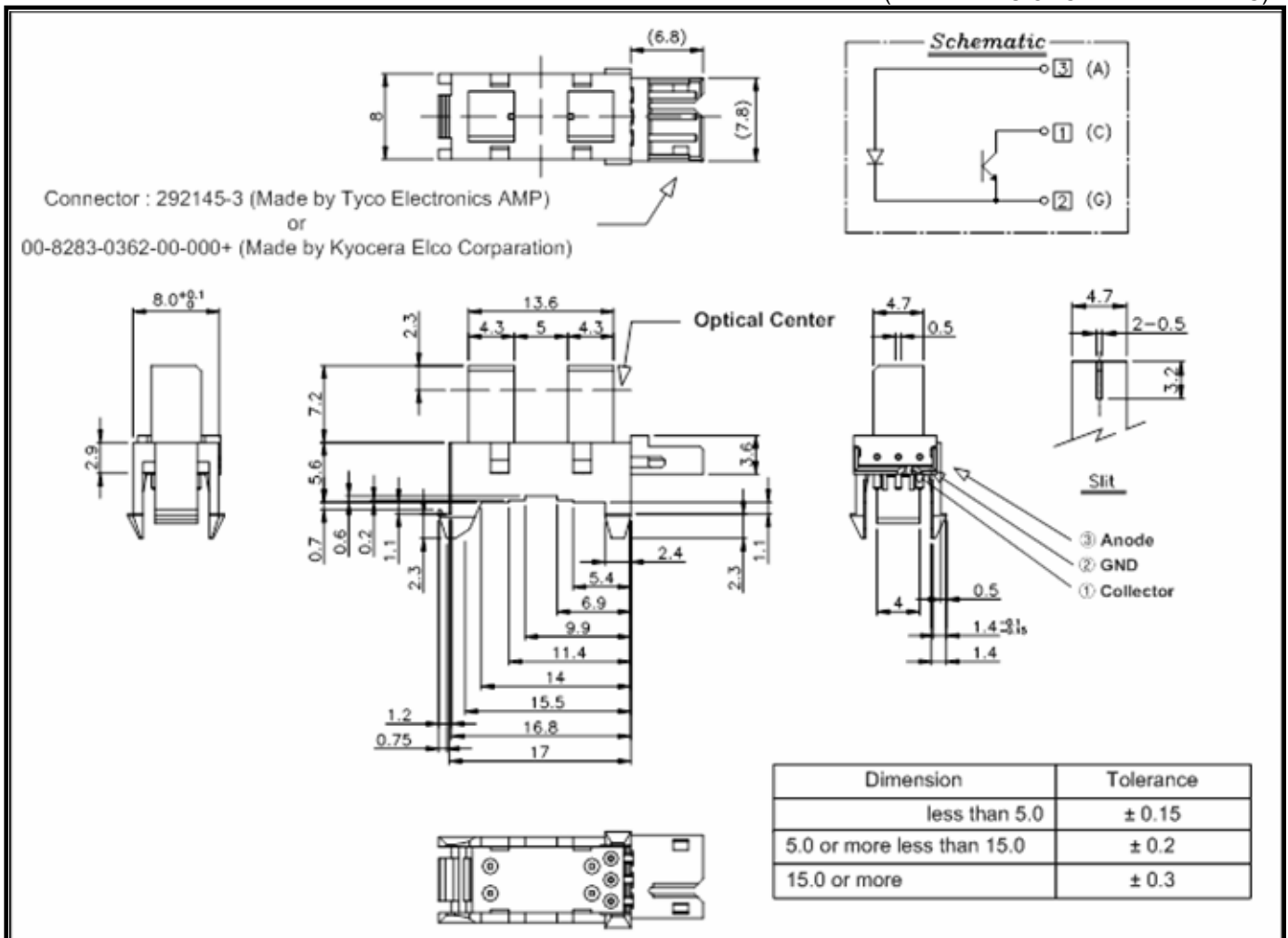


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Package Outline Dimensions

(ALL DIMENSIONS IN MILLIMETERS)



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