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℃, Unless otherwise specified)

Characteristic		Symbol	Ratings	Unit
Input	Power Dissipation	P_D	75	㎽
	Forward Current	I_F	50	㎃
	Reverse Voltage	V_R	6	V
	Peak Forward Current *1	I_{FP}	1	A
Output	Collector Current	I_C	20	㎃
	Collector-Emitter Voltage	V_{CEO}	35	V
	Emitter-Collector Voltage	V_{ECO}	6	V
Operating Temperature *2		T_{opr}	-30 ~ +95	℃
Storage Temperature *2		T_{stg}	-40 ~ +100	℃

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

*2 : No icebond or dew.

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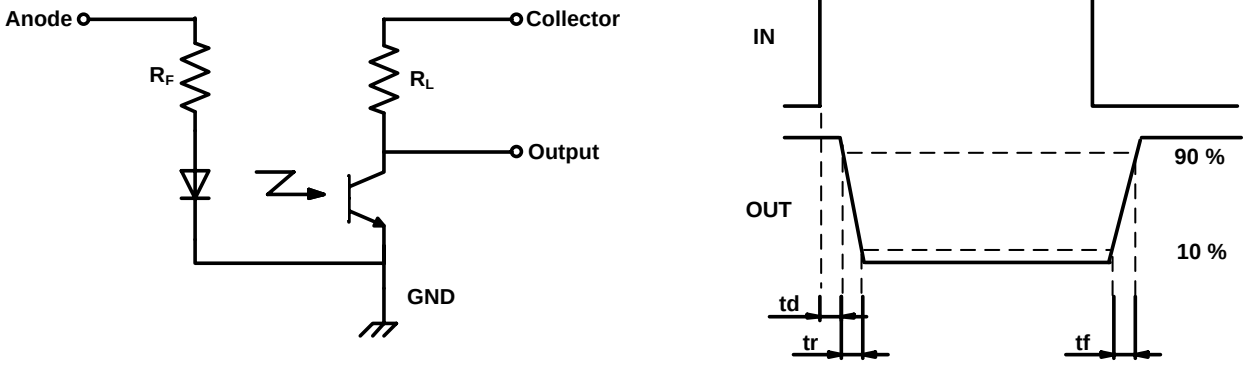
Electrical Characteristics (T_a=25℃)

Characteristic		Symbol	Test Condition	Min.	Typ.	Max.	Unit
Input	Forward Voltage	V_F	I_F=20mA	-	1.2	1.4	V
	Peak Wavelength	λp	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	λp	-	-	880	-	nm
Transfer Charac-teristics	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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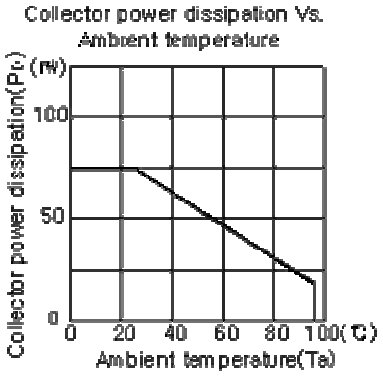
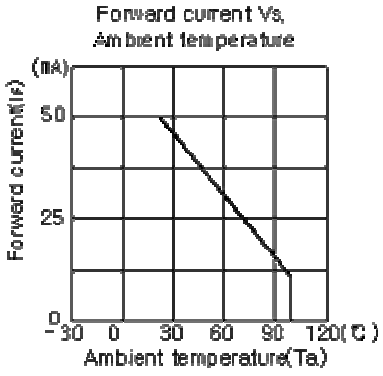
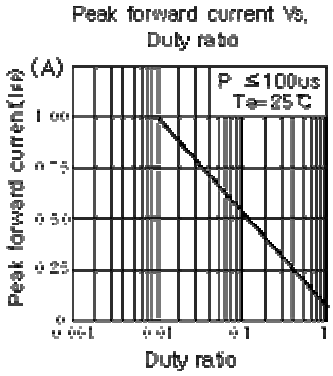
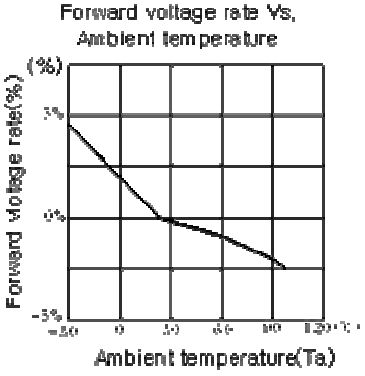
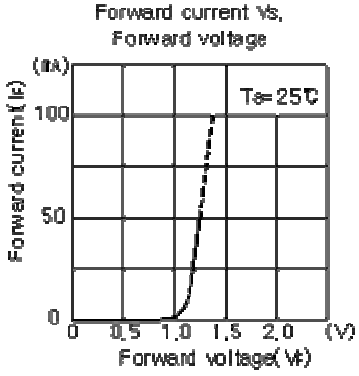
Characteristics

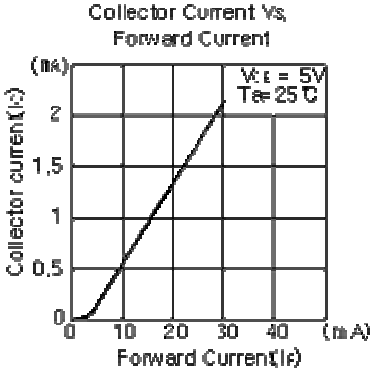


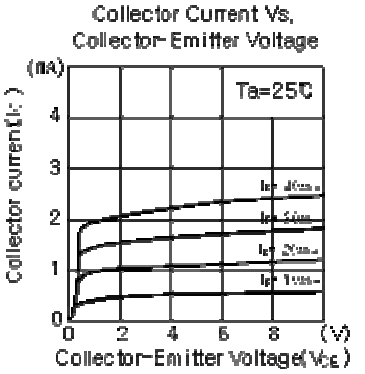


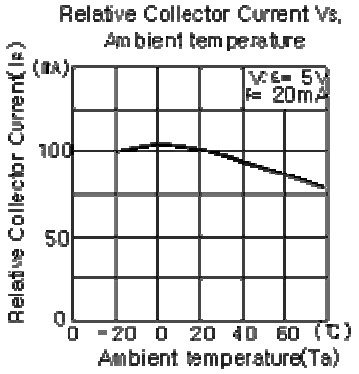


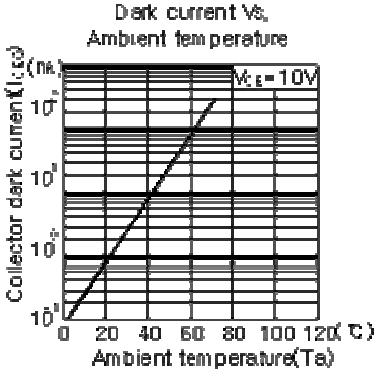


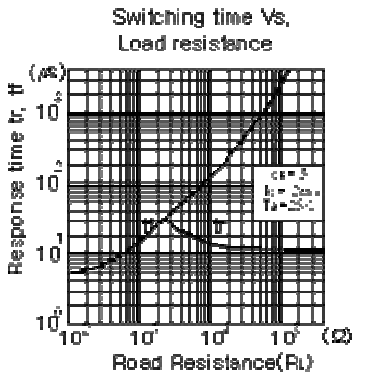


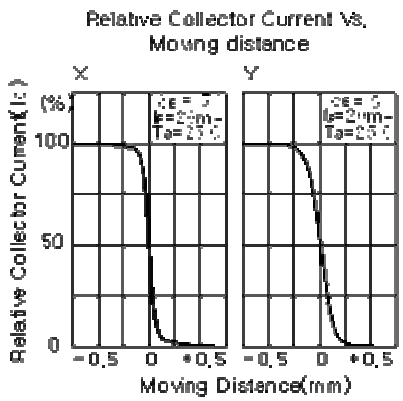


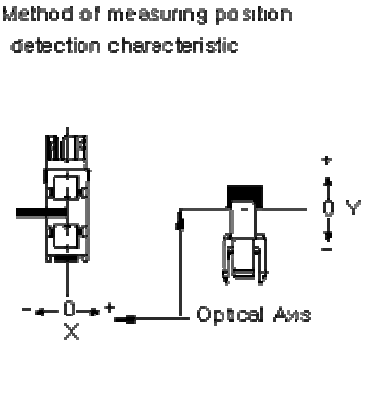












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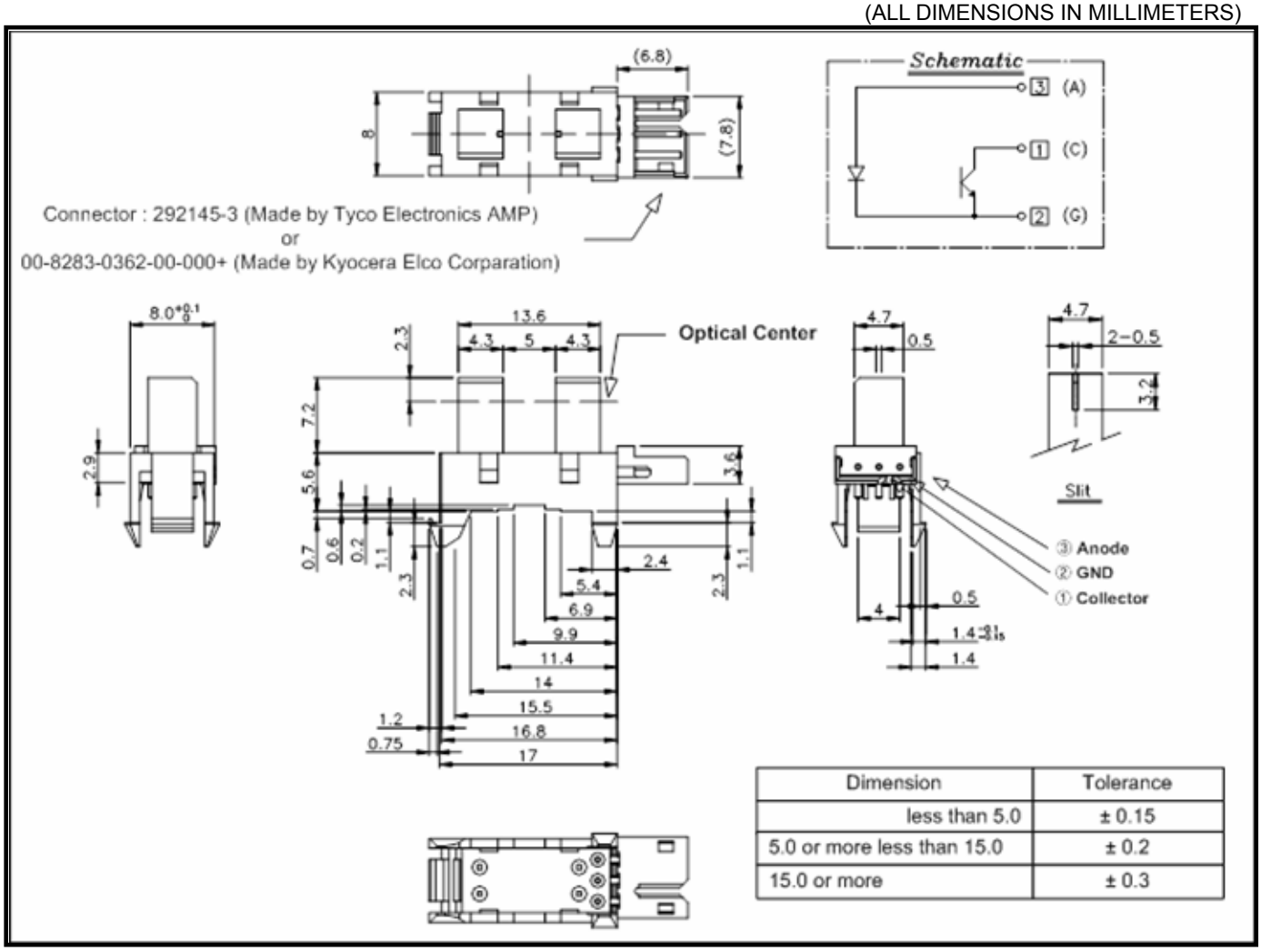
Package Outline Dimensions

(ALL DIMENSIONS IN MILLIMETERS)



Dimension	Tolerance
less than 5.0	± 0.15
5.0 or more less than 15.0	± 0.2
15.0 or more	± 0.3

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