

Photo Interrupter

KIT5016A

Description

The KIT5024A is a high performance transmissive type photo interrupter, combines high-output GaAs IRED with high sensitive phototransistor.

Features

- High speed response
- 5mm gap
- RoHS compliant

Applications

- Printers.
- Copiers
- Fax

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

Characteristic		Symbol	Ratings	Unit
Input	Power Dissipation	P _D	100	mW
	Forward Current	I _F	60	mA
	Reverse Voltage	V _R	5	V
	Peak Forward Current ^{*1}	I _{FM}	1	A
Output	Collector 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 ^{*3}		T _{opr}	-20 ~ +85	°C
Storage Temperature ^{*3}		T _{stg}	-30 ~ +85	°C
Soldering Temperature ^{*4}		T _{sol}	260	°C
ESD Withstand Voltage (Human Body Model)		V _{ESD}	±2.0	kV

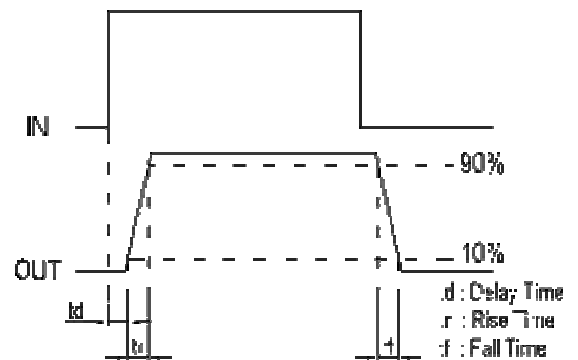
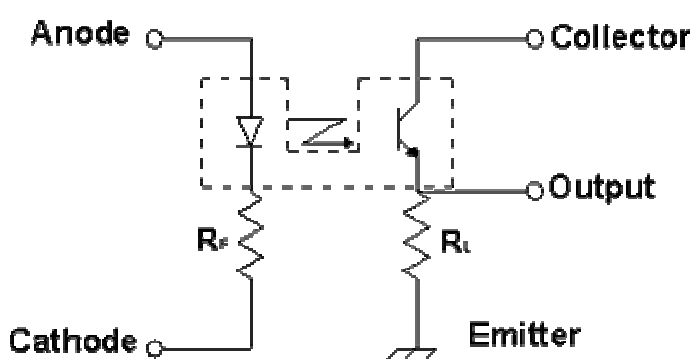
*1 : Pulse width ≤ 100usec ; Duty factor : 1%.

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.

Electrical Characteristics (T_a=25°C)

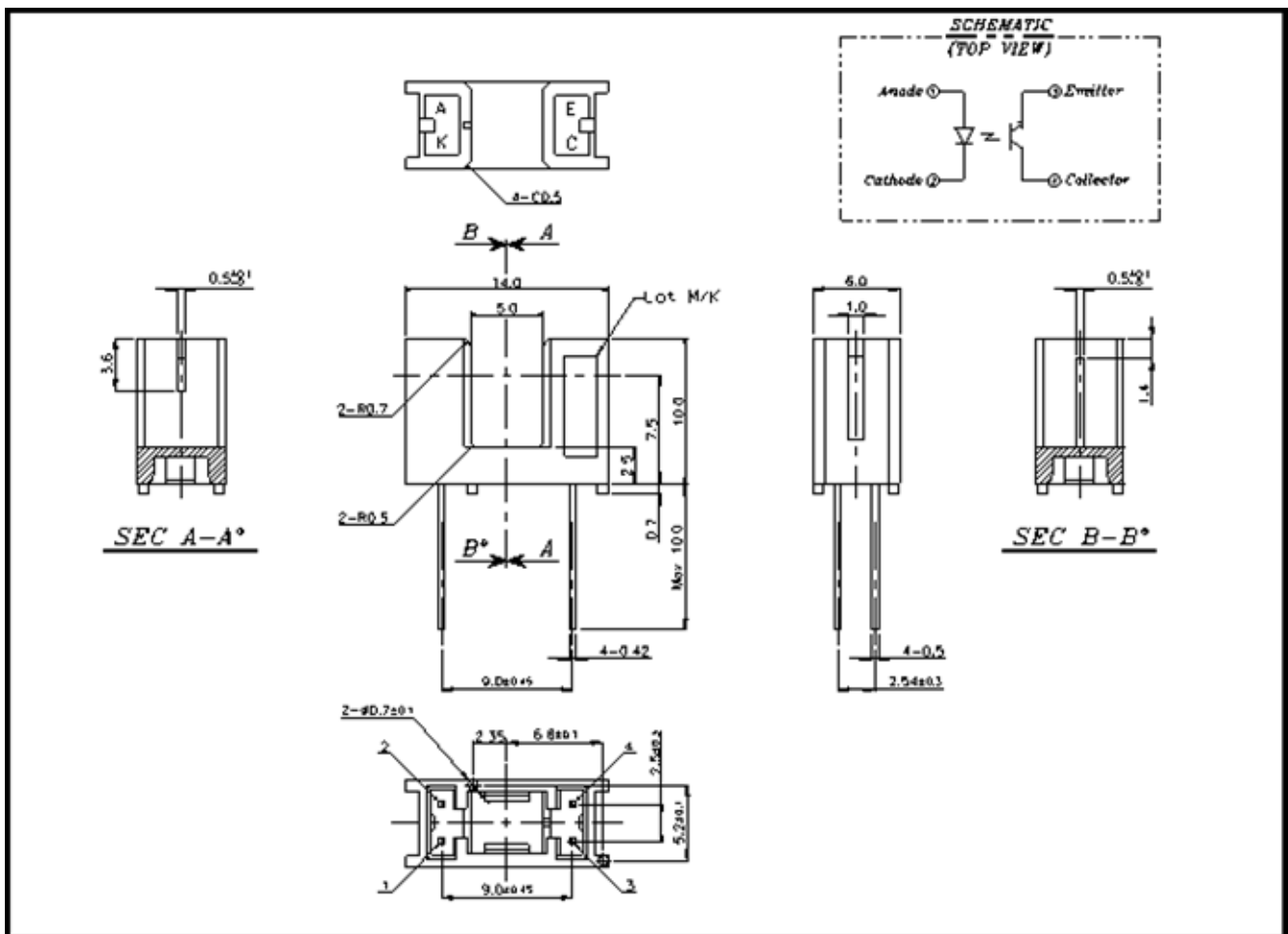
Characteristic		Symbol	Test Condition	Min.	Typ.	Max.	Unit
Input	Forward Voltage	V _F	I _F = 20mA	-	1.2	1.7	V
	Reverse Current	I _R	V _R = 5V	-	-	10	μA
	Peak Wavelength	λ _p	I _F = 20mA	-	940	-	nm
Output	Dark Current	I _{CEO}	V _{CE} = 10V, 0 Lux	-	-	100	μA
Transfer Characteristics	Collector Current	I _C	I _F =20mA, V _{CE} =5V, Non-shading	0.5	-	14	mA
	C-E Saturation Voltage	V _{CE(sat)}	I _F = 20mA, I _C = 0.1mA	-	-	0.4	V
Response Time	Rise Time	t _r	V _{CC} =5V, I _C =0.1mA, R _L =100Ω	-	5	-	μs
	Fall Time	t _f		-	5	-	μs

* Circuit for Measuring Response Time



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Package Outline Dimensions



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