AUK CORP.

KIT3025S

Photo Interrupter

Description

The KIT3025S a compact transmission type photointerrupter, which combine high-output GaAs IRED with high sensitive dual photo transistors.

Features

- Surface mount package
- Slit : 0.3mm (Channel Distance : 0.8mm).
- Moisture Sensitive Level(MSL)3.
- GAP : 3.0mm.
- RoHS Compliance.

Applications

- Motor Control.
- Position Encoder.
- Printers.
- Ticket Vending Machines.

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

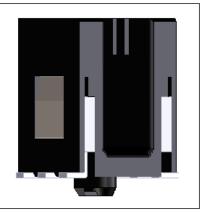
Characteristic		Symbol	Ratings	Unit
Input LED	Power Dissipation	P _D	75	mW
	Forward Current	١ _F	50	mA
	Reverse Voltage	V _R	6	V
	Pulse Forward Current *1	I _{FP}	0.5	А
Output Detector	Collector Dissipation	Pc	75	mW
	Collector Current	Ι _C	20	mA
	C-E Voltage	V _{CEO}	20	V
	E-C Voltage	V _{ECO}	7	V
Operating Temperature *2		Topr.	-40 ~ +105	°C
Storage Temperature *2		Tstg.	-40 ~ +105	C
Soldering Temperature *3		Tsol.	260	°C
Reflow Soldering Temperature		Tsol.	260	°C

*1 : Pulse width tw ${\leq}100~\mu\text{s}\,,$ period T=10 ms

*2 : No icebound or dew

*3 : For 5s or less





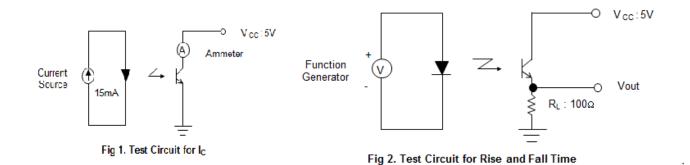


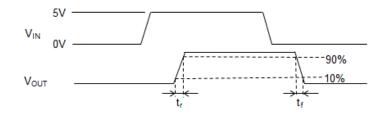
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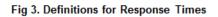
Electrical Characteristics (T_a=25°C)

Characteristic		Symbol	Min.	Тур.	Max.	Unit	Condition
Input	Forward Voltage	V _F	-	1.2	1.4	V	I _F =20 mA
	Reverse Current	I _R	-	-	10	μA	V _R =5V
	Peak Wavelength	λ _P	-	940	-	nm	I _F =15 mA
Output	Dark Current	I _{CEO}	-	1	100	nA	$V_{CE} = 20V, 0Lux$
Collector Current		lc	0.3	-	-	mA	$I_F{=}15 \text{ mA}, V_{CE}{=}5V$
Response Time	Rise Time	tr	-	4	15	μs	$\begin{array}{c} V_{CC} = 5V, \ I_C = 0.3 \ \text{mA} \\ R_L = 100\Omega \end{array}$
	Fall Time	tf	-	5	20	μs	

• Circuit for measuring response time



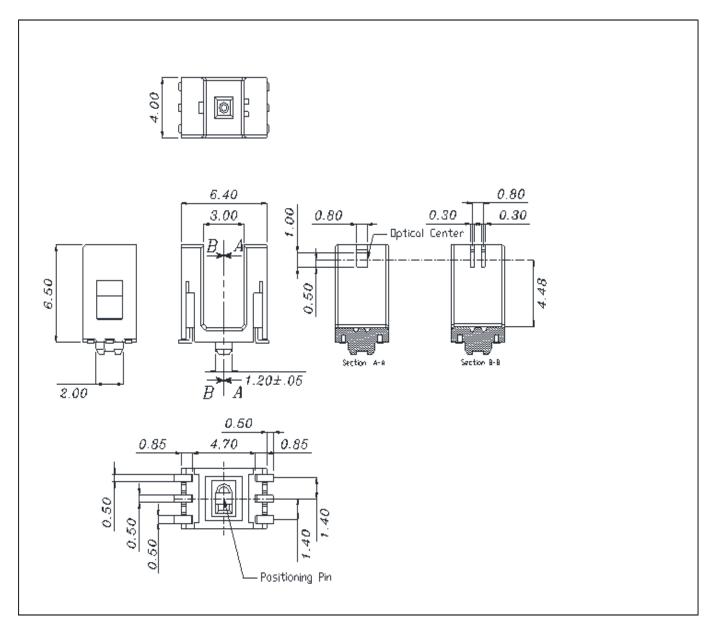




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Package Outline Dimensions



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