

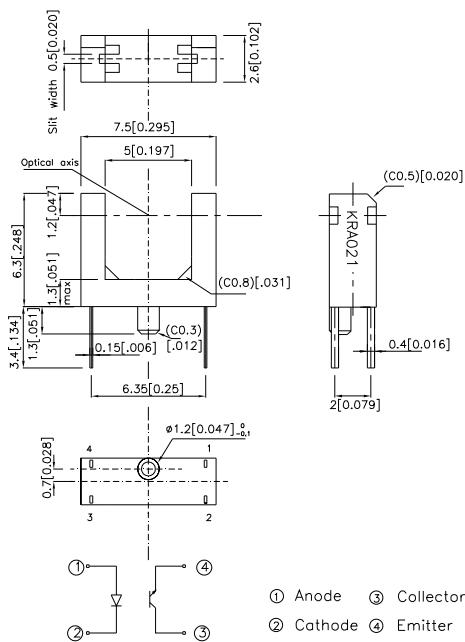
PRELIMINARY SPEC

*Application

- 1.Copiers,printers and Fax Machines.
- 2.VCRs and CD players.
- 3.Various position detection sensor.

*Dimensions

Note:All units are in millimeters unless otherwise indicated.



*Features

- 1.Compact package.
- 2.High sensing accuracy(Slit width:0.5mm).
- 3.Printed wiring board direct mounting type(with a locating pin).
- 4.Gap between light emitter and detector:5mm.
- 5.Compliant with European RoHS directives.

*Absolute Maximum Ratings ($T_a=25^\circ C$)

	Parameter	Symbol	Rating	Unit
Input	Forward current[1]	I _F	30	mA
	Reverse voltage	V _R	5	V
	Power dissipation	P _d	35	mW
	Peak Forward Current [2]	I _{FP}	100	mA
Output	Collector-emitter voltage	V _{C EO}	35	V
	Emitter-collector voltage	V _{E CO}	5	V
	Collector current	I _C	50	mA
	Collector power dissipation	P _C	75	mW
Operating temperature		T _{opr}	-30~+85	°C
Storage temperature		T _{stg}	-40~+100	°C
Soldering temperature(5s) [3]		T _{sol}	260	°C

Notes:

- 1.Refer to the temperature rating chart if the ambient temperature exceeds $25^\circ C$.
- 2.Duty:1/100,Pulse Width:0.1mS.
- 3.At the location of 1.5mm from the package bottom.

Unless otherwise.,the tolerances are $\pm 0.15\text{mm}$.

*Electrical / Optical Characteristics at $T_a=25^\circ C$

Parameter	Symbol	Value			Conditions	
		Min.	Typ.	Max.		
Input	Forward voltage	V _F	-	1.15V	1.40V	I _F =10mA
	Reverse current	I _R	-	-	10μA	V _R =5V
	Peak Wavelength	λ _p	-	940nm	-	-
Output	Collector current	I _C /I _F	2.5%	-	50%	I _F =10mA, V _{C E} =2V
	Collector dark current	I _D	-	-	100nA	V _{C E} =24V, I _F =0
	Collector-emitter saturation voltage	V _{C E(sat)}	-	0.1V	0.4V	I _C =0.25mA, I _F =20mA
	Peak spectral sensitivity wavelength	λ _p	-	920nm	-	-
Rise time	tr	-	15μsec	50μsec	V _{CC} =5V, R _L =1KΩ I _C =1mA	
Fall time	tf	-	15μsec	50μsec		



Fig.1 Forward Current vs. Forward Voltage

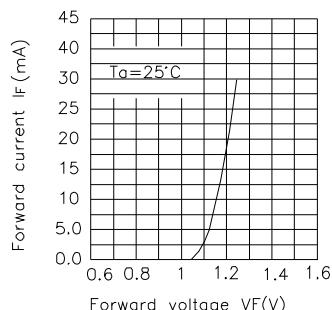


Fig.2 Collector Current vs. Forward Current

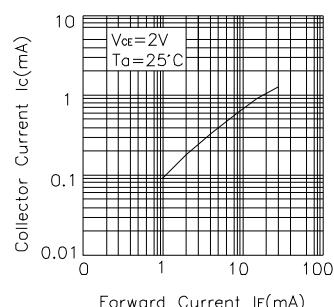


Fig.3 Collector Current vs. Ambient Temperature

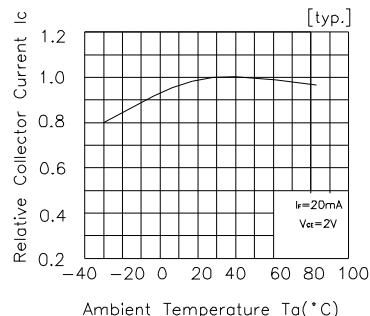


Fig.4 Collector-Emitter Saturation Voltage vs. Ambient Temperature

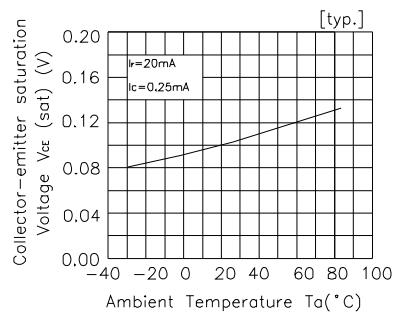


Fig.5 Forward Current vs. Collector Dissipation Temperature Rating

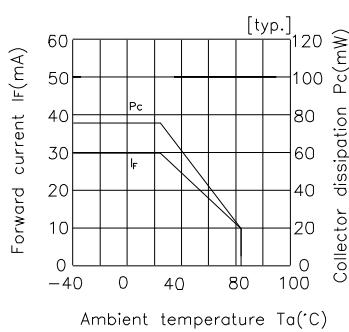


Fig.6 Forward Current vs. Collector-Emitter Voltage

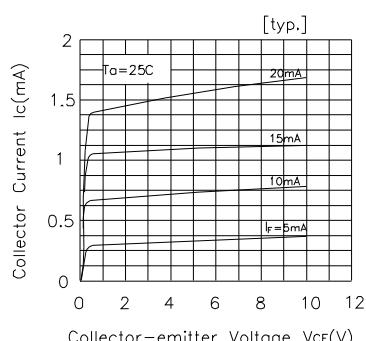


Fig.7 Relative Collector Current vs. Shield Distance(1)

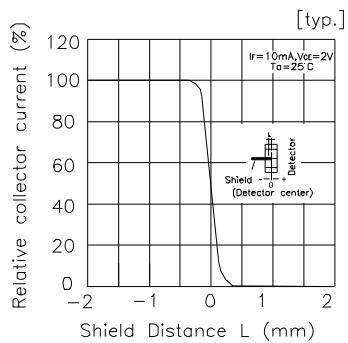


Fig.8 Relative Collector Current vs. Shield Distance(2)

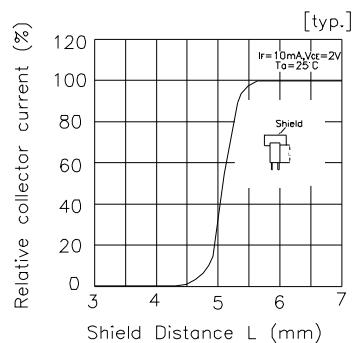
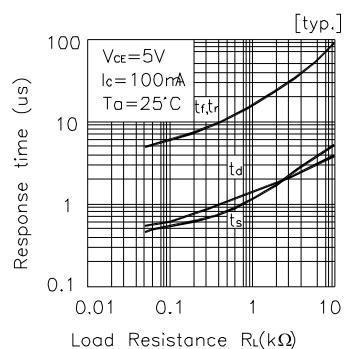
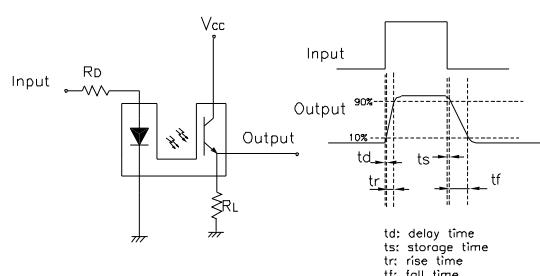


Fig.9 Response Time vs Load Resistance

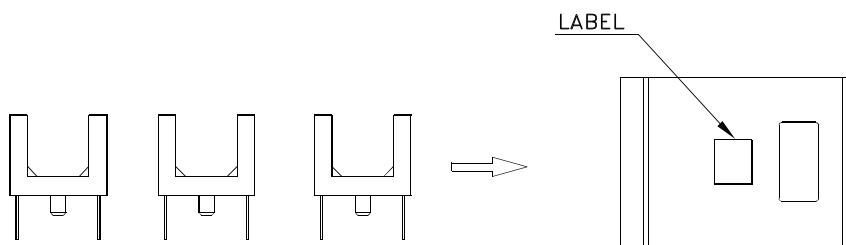


Test Circuit for Response Time

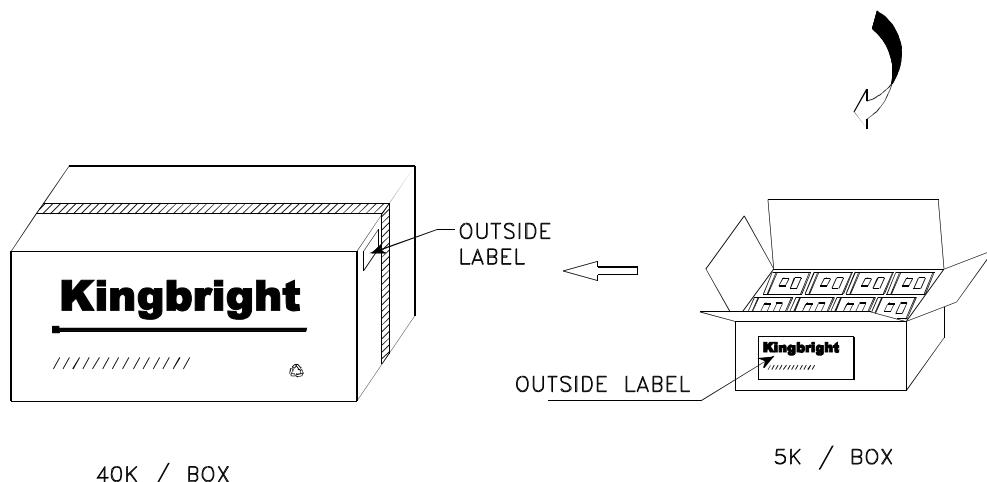


PACKING & LABEL SPECIFICATIONS

KRA021

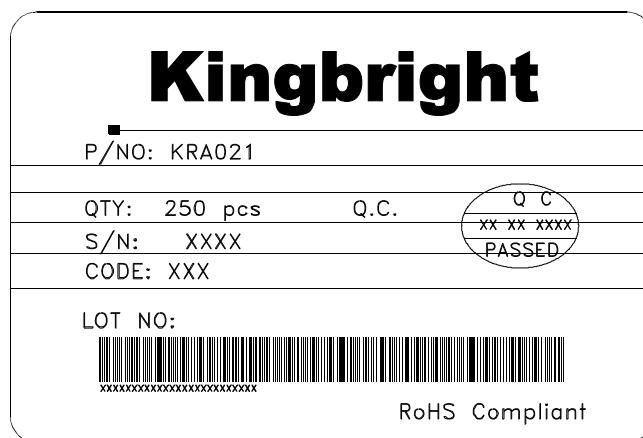


250PCS / BAG



40K / BOX

5K / BOX



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