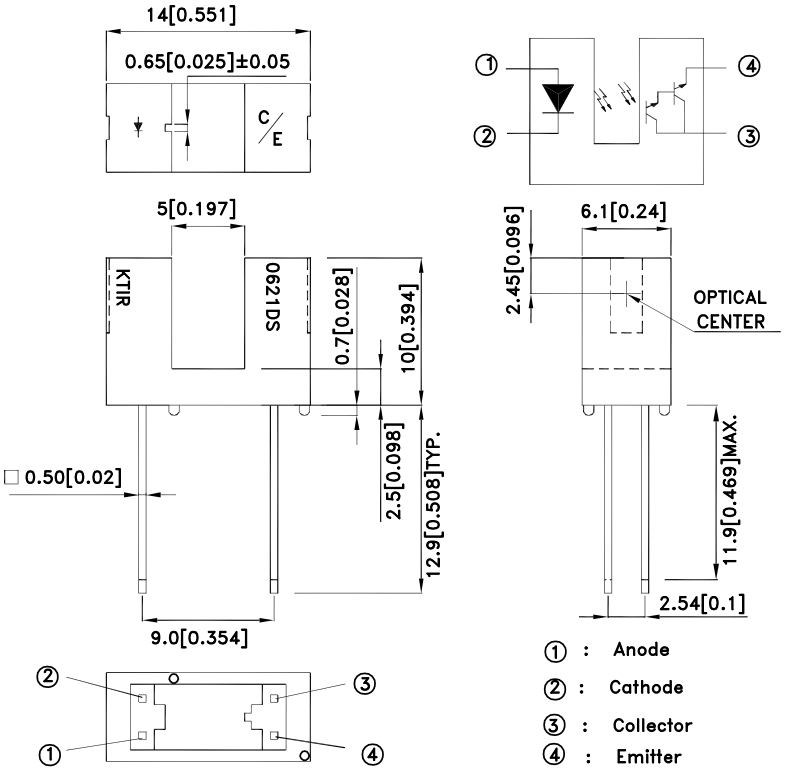
Part Number: KTIR0621DS

Package Dimensions



Features

- High sensing accuracy.
- High current transfer ratio.
- Both-sides mounting type.
- RoHS Compliant.

Applications

- OA equipment, such as floppy disk drives, printers, facsimiles, etc.
- VCRs.

Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(0.01") unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.
4. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

*Absolute Maximum Ratings(Ta=25°C)

Parameter		Symbol	Rating	Unit
Input	Forward current	I_F	50	mA
	Reverse voltage	V_R	6	V
	Power dissipation	Pd	75	mW
	Peak Forward Current (Pulse Width ≤100uS, Duty Cycle =1%)	I_{FP}	1	A
Output	Collector-emitter voltage	V_{CEO}	35	V
	Emitter-collector voltage	V_{ECO}	6	V
	Collector current	I_C	40	mA
	Collector power dissipation	P_C	75	mW
Operating temperature		Topr	-25~+85	ºC
Storage temperature		Tstg	-40~+100	ºC
soldering temperature (1/16 inch from body for 5 seconds)		Tsol	260	ºC

*Electro-optical Characteristics(Ta=25°C)

Parameter			Symbol	Conditions	Min.	TYP.	Max.	Unit
Input	Forward Voltage		V_F	I_F=20mA	1.0	1.2	1.5	V
	Peak forward voltage		V_{FM}	I_{FM}=0.5A	-	2	3	V
	Reverse Current		I_R	V_R=6V	-	-	10	μA
	Peak Wavelength		λP	I_F=20mA	-	940	-	nm
Output	Collector dark current		I_{CEO}	V_{CE}=10V I_F=0mA	-	-	10^{-6}	A
Transfer charact-eristics	Current transfer ratio		CTR	V_{CE}=2V I_F=1mA	-	200	-	%
	Collector-emitter saturation voltage		$V_{CE\ (SAT)}$	I_F=2mA I_C=1mA	-	-	1.0	V
	Response time	Rise time	tr	V_{CE}=2V I_C=10mA R_L=100Ω	-	90	400	μsec
		Fall time	tf		-	80	300	μsec

Fig. 1 Forward Current vs. Forward Voltage

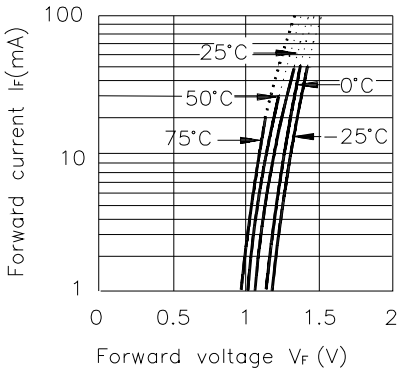


Fig. 2 Collector Current vs. Forward Current

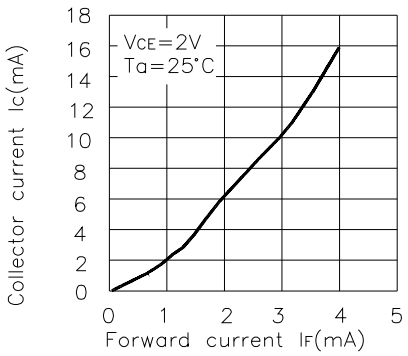


Fig. 3 Collector Current vs. Collector-emitter Voltage

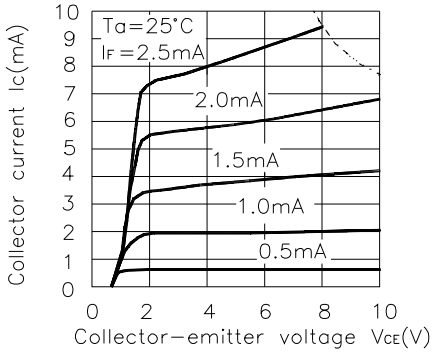


Fig. 4 Collector Current vs. Ambient Temperature

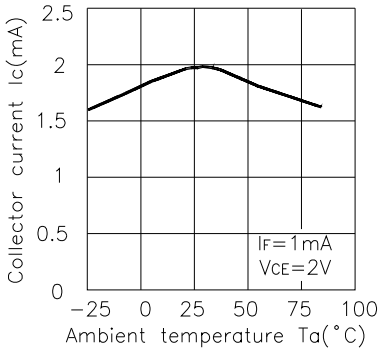


Fig.5 Collector-emitter Saturation Voltage vs.Ambient Temperature

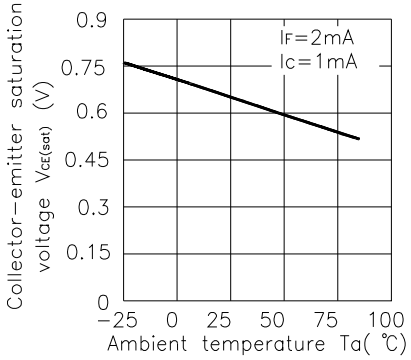


Fig.6 Relative Collector Current vs. Shield Distance (1)

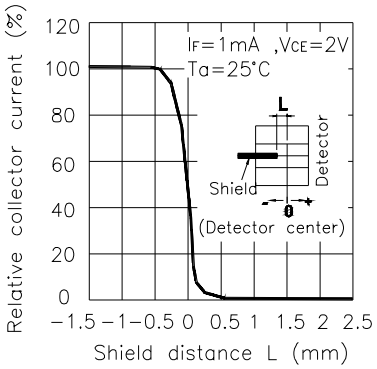


Fig.7 Relative Collector Current vs. Shield Distance (2)

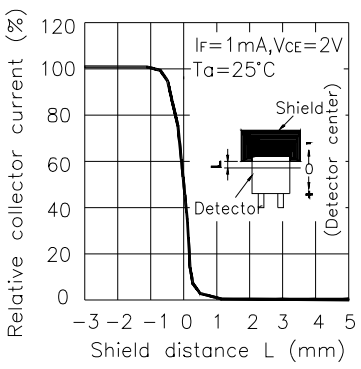
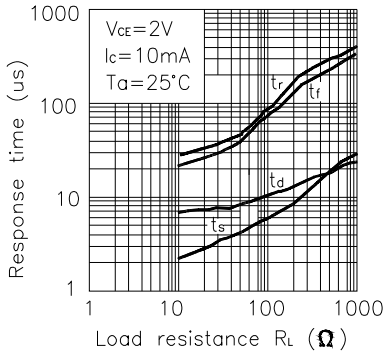
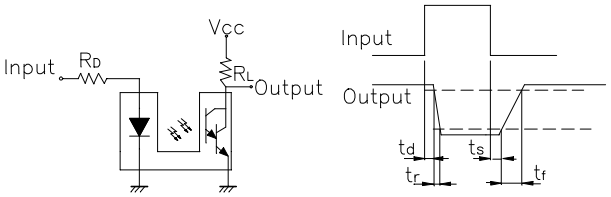


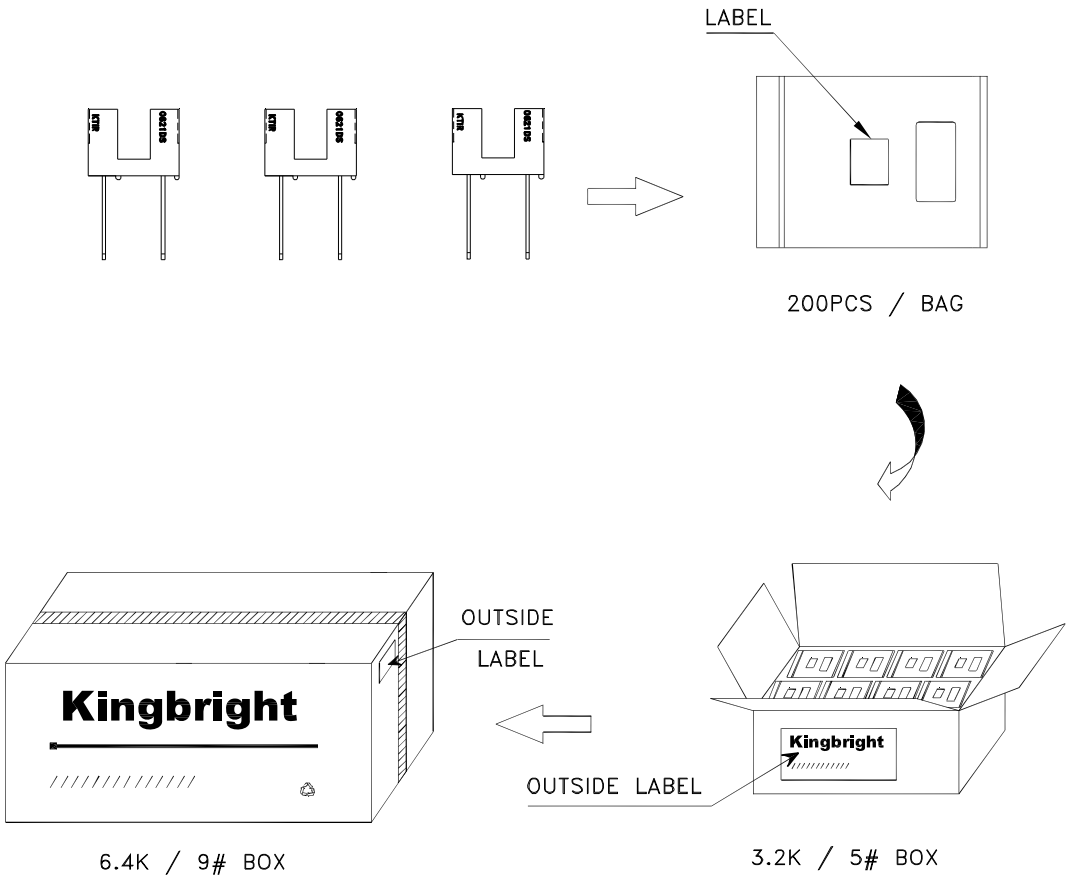
Fig.8 Response Time vs Load Resistance

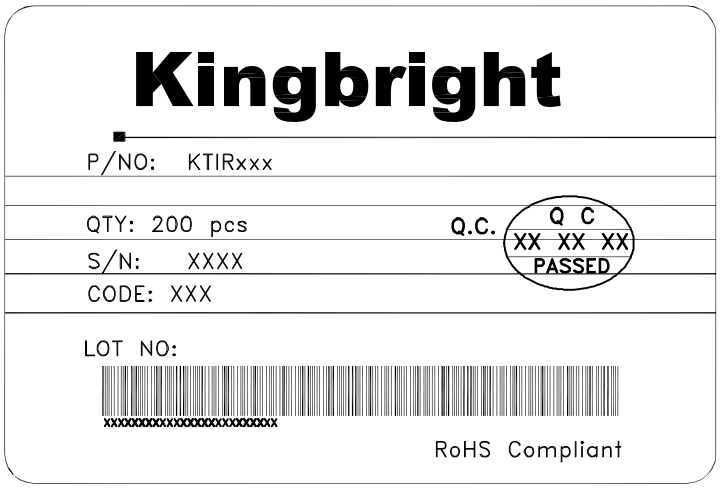


Test Circuit for Response Time



PACKING & LABEL SPECIFICATIONS **KTIR0621DS**





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