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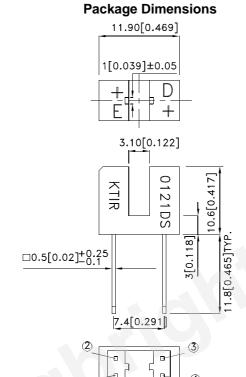
Part Number: KTIR0121DS

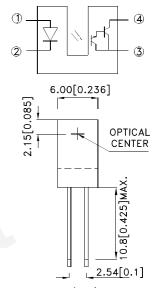
Features

- 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





Anode Cathode **③**: Collector Emitter

- All dimensions are in millimeters (inches).
 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	lF	50	mA
	Reverse voltage	VR	6	V
	Power dissipation	PD	75	mW
	Peak Forward Current (Pulse Width≤100µS,Duty Cycle=1%)	IFP	1	Α
Output	Collector-emitter voltage	VCEO	35	V
	Emitter-collector voltage	VECO	6	V
	Collector current	Ic	40	mA
	Collector power dissipation	Pc	75	mW
Operating tem	perature	Topr -40~+85		°C
Storage temp	erature	Tstg	-40~+85	°C
Soldering tem	perature (1/16 inch from body for 5 seconds)	Tsol	260	°C





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Electro-optical Characteristics(Ta=25°C)

Parameter		Symbol	Conditions	Min.	Тур.	Max.	Unit	
Input	Forward voltage		VF	IF=20mA	1.0	1.2	1.5	V
	Peak forward voltage		V_{FM}	I _{FM} =0.5A	-	2	3	V
	Reverse current		lr	VR=6V	_	_	10	μΑ
Output	Collector dark current		ICEO	VCE =10V,IF=0mA	_	_	10 ⁻⁶	Α
Transfer Charac- teristics	Current transfer ratio		CTR	Vce=2V IF=1mA	_	600	_	%
	Collector-emitter saturation voltage		V _{CE} (sat)	IF=2mA IC=1mA	_	_	1.0	V
	Response time	Rise time	tr	$VCE=2V$ $IC=10mA$ $R_L=100\Omega$	_	90	400	μSec
		Fall time	tf		ı	80	300	μSec

Fig.1 Forward Current vs. Forward Voltage

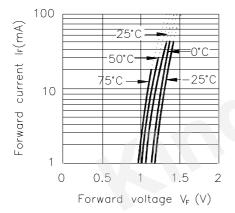


Fig.3 Collector Current vs.
Collector-emitter Voltage

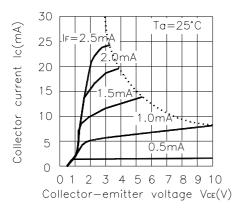
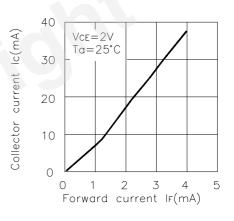


Fig.2 Collector Current vs. Forward Current



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Fig.4 Collector Current vs.

Ambient Temperature

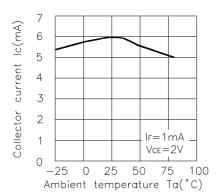


Fig.5 Collector-emitter Saturation Voltage vs. Ambient Temperature

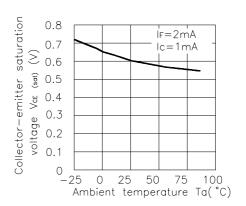


Fig.6 Relative Collector Current vs. Shield Distance(1)

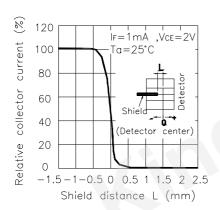


Fig.7 Relative Collector Current vs. Shield Distance(2)

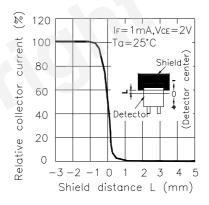
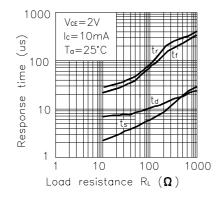
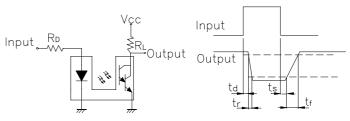


Fig.8 Response Time vs. Load Resistance







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PACKING & LABEL SPECIFICATIONS KTIR0121DS LABEL 200PCS / BAG OUTSIDE LABEL **Kingbright** OUTSIDE LABEL 3.2K / 5# BOX 6.4K / 9# BOX Kingbright P/NO: KTIRxxx QTY: 200 pcs S/N: CODE: XXX LOT NO:

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