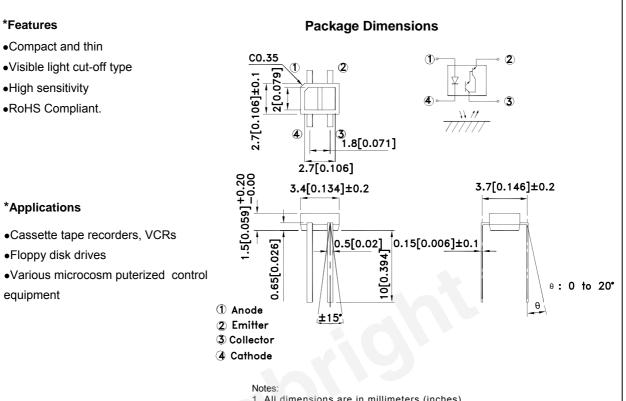
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Part Number: KTIR0821DS



1. All dimensions are in millimeters (inches).

2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.

3. Lead spacing is measured where the leads emerge from the package. . The specifications, characteristics and technical data described in the datasheet are 4 subject to change without prior notice.

*Absolute Maximum Ratings (Ta=25°C)

	Parameter	Image: rd currentISImage: rdse voltage V_R 6V		
	Forward current		50	mA
lanut	Reverse voltage	V _R	6	V
Input	Power dissipation	Pd	75	mW
	Peak Forward Current (Pulse Width ≤100uS, Duty Cycle =1%)	I _{FP}	1	A
	Collector-emitter voltage	V _{CEO}	35	V
Outrut	Emitter-collector voltage	V _{ECO}	6	V
Output	Collector current	I _C	50	mA
	Collector power dissipation	Pc	75	mW
Operating t	Operating temperature		-25~+85	°C
Storage te	torage temperature		-40~+100	°C
soldering te	Storage temperatureTstg-40~+100soldering temperature (1/16 inch from body for 5 seconds)Tsol260		°C	

Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.



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Parameter			Symbol	Conditions	Min.	TYP.	Max.	Unit
	Forward Voltage		V _F	I _F =20mA	1.0	1.2	1.5	V
Input	Reverse Current		I _R	V _R =6V	-	-	10	μA
	Peak Wavelength		λΡ	I _F =20mA	-	940	-	nm
Output	Collector Dark Current		I _{CEO}	V _{CE} =10V I _F =0mA	-		10 ⁻⁶	А
Transfer charact- eristics	* ¹ Collector Current		Ι _C	V _{CE} =2V I _F =4mA	-	3	-	mA
	* ² Leak Current		I _{LEAK}	V _{CE} =5V I _F =4mA	-	-	5	μA
	Response time Fall time	Rise time	tr	V _{CE} =2V	-	80	400	μsec
		Fall time	tf	I _C =10mA R _L =100Ω,d=1mm	-	70	400	μsec

Electro-optical Characteristics (Ta=25°C)

*1 The condition and arrangement of the reflective object are shown below

*2 Without reflective object

*3. Excess driving current and/or operating temperature higher than recommended conditions may result in severe light deg radation or premature failure.

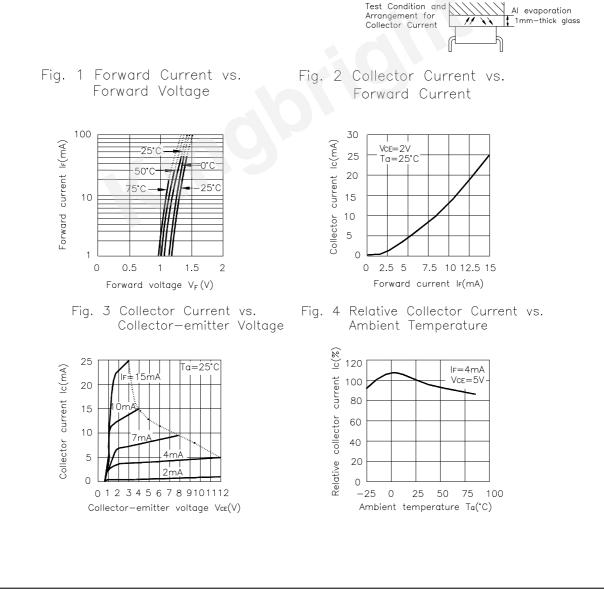


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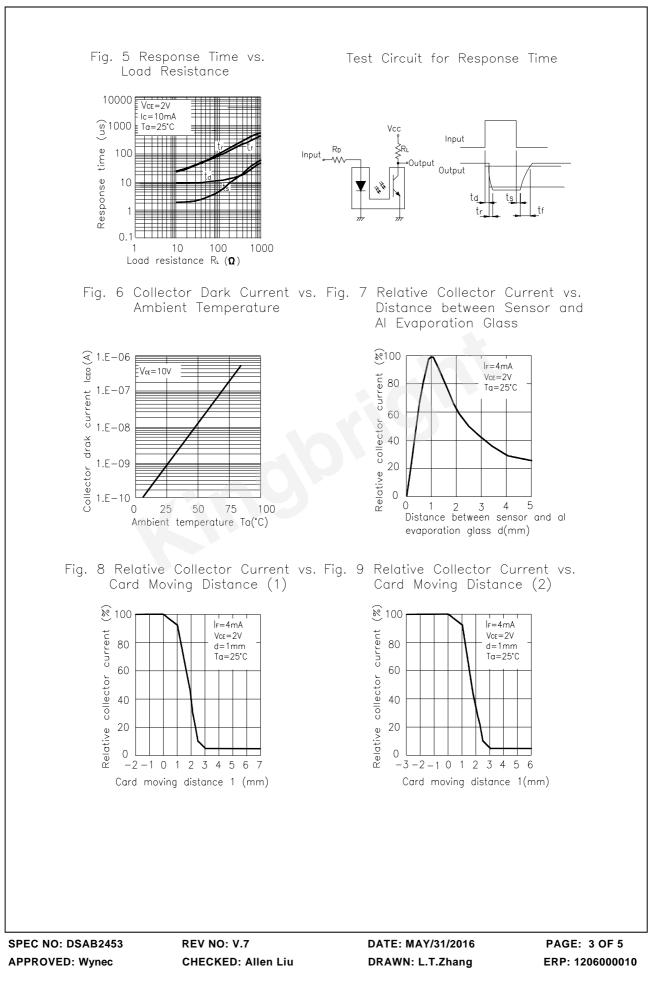


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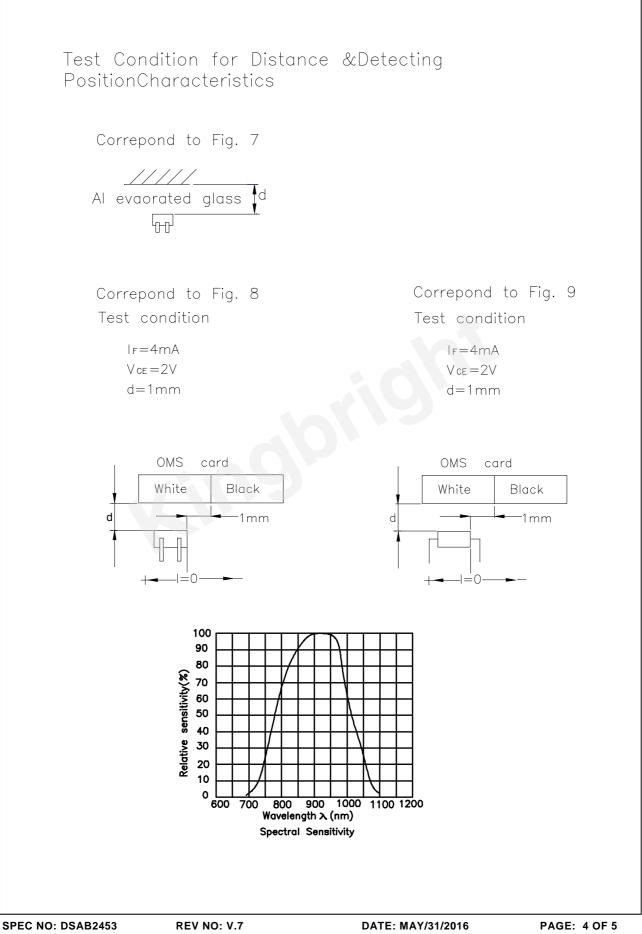
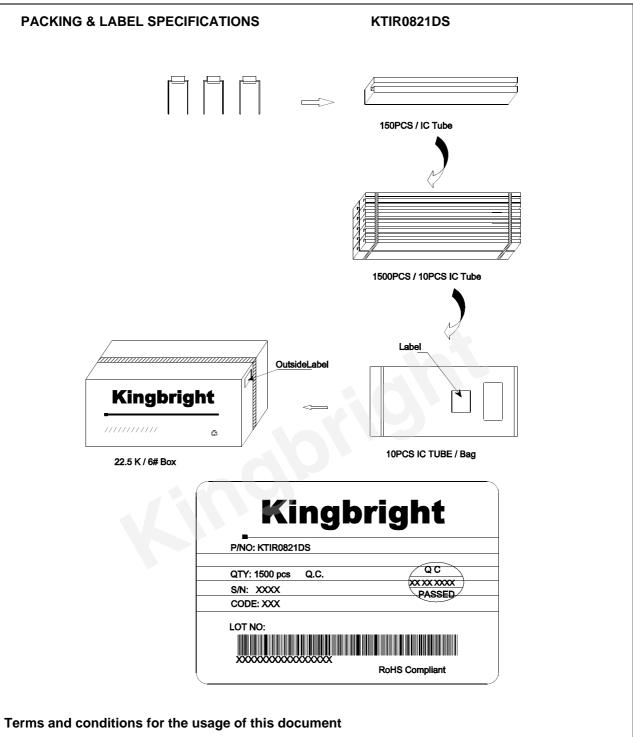


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- 2. The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer should refer to the latest datasheet for the updated specifications.
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