

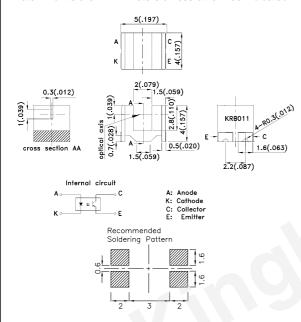
Part Number: KRB011

*Application

- 1.Floppy disk drives, Camera.
- 2. Various microcomputerized control equipment.

*Dimensions

Note:All units are in millimeters unless otherwise indicated.



Unless otherwise.,the tolerances are ±0.15mm.

*Features

- 1.Ultra-compact.
- 2.High sensing accuracy(Slit width:0.3mm).
- 3.Gap between light emitter and detector:2mm.
- 4. Moisture Sensitivity Level : Level 4.
- 5.RoHS compliant.

*Absolute Maximum Ratings (Ta=25°C)

Parameter		Symbol	Rating	Unit
Input	Forward current[1]	lF	25	mA
	Reverse voltage	VR	5	V
	Power dissipation	Pd	35	mW
Output	Collector-emitter voltage	VCEO	20	V
	Emitter-collector voltage	VECO	5	V
	Collector current	Ic	20	mA
	Collector power dissipation	Pc	75	mW
Operating temperature		Topr	-30~+85	°C
Storage temperature		Tstg	-40~+90	°C
Soldering temperature[2]		Tsol	260	°C
Manual soldering[2]		Tsol	300	°C

Notes

- Refer to the temperature rating chart if the ambient temperature exceeds 25°C.
- 2.Complete soldering within 10 seconds for reflow soldering and within 3 seconds for manual soldering.

*Electrical / Optical Characteristics at Ta=25°C

Parameter		Symbol	Value			Conditions	
			Min.	Тур.	Max.	Conditions	
Input	Forward voltage	VF	-	1.1V	1.3V	IF=5mA	
	Reverse current	lR	-	-	10μΑ	VR=5V	
	Peak Wavelength	λр	-	940nm	-	-	
Output	Collector current	Ic	50μΑ	650μΑ	-	IF=5mA,VcE=5V	
	Collector dark current	lo	ı	-	100nA	VCE =10V	
	Cullector-emitter saturation voltage	VCE(sat)	-	0.1V	0.4V	Ic=50μA, IF=20mA	
	Peak spectral sensitivity wavelength	λр	ı	920nm	ı	-	
Rise time		tr	-	8µsec	-	Vcc=5V, RL=1KΩ Ic=100μA	
Fall time		tf	-	10μsec	-		





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Fig.1 Forward Current vs. Forward Voltage (Typical)

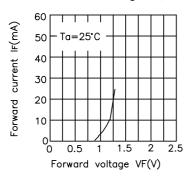


Fig.3 Collector Current vs.
Ambient Temperature

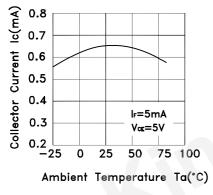


Fig.5 Forward Current vs. Collector Dissipation Temperature Rating

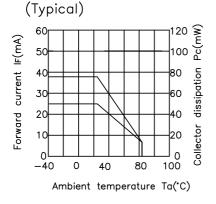


Fig.2 Collector Current vs. Forward Current

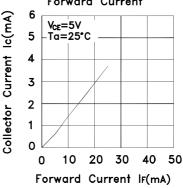


Fig.4 Collector—Emitter Saturation Voltage vs.Ambient Temperature

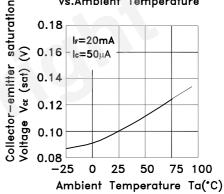
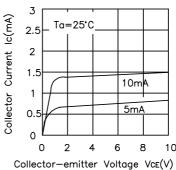


Fig.6 **Collector** Current vs. Collector—Emitter Voltage





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

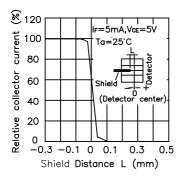


Fig.8 Relative Collector Current vs. Shield Distance(2) (Typical)

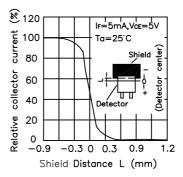
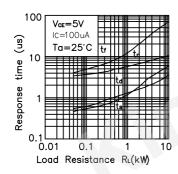
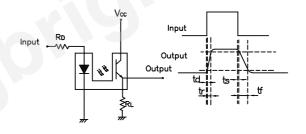
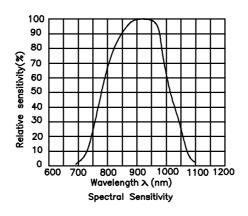


Fig.9 Response Time. vs Load Resistance (Typical)

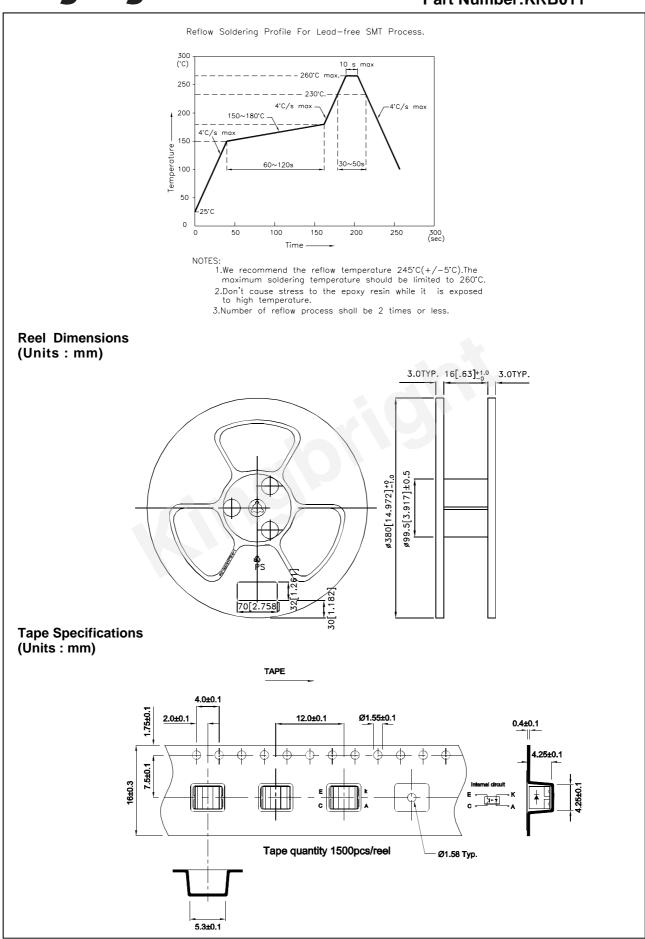


Test Circuit for Response Time





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Part Number: KRB011

PACKING & LABEL SPECIFICATIONS KRB011 USER DIRECTION OF FEED LABEL-LABEL 1,500pcs / Reel 1Reel / Bag OUTSIDE LABEL Kingbright 15K / 17# BOX 3K / 12# BOX Kingbright P/NO: KRB011 QTY: 1,500 pcs XX XX XXXX S/N: XXXX CODE: XXX

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RoHS Compliant

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