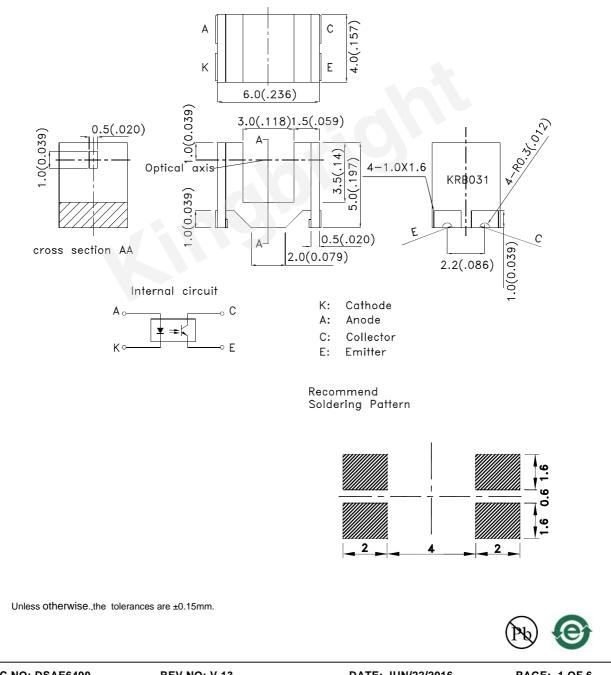
## PCB TYPE PHOTOINTERRUPTER

### **\*Features**

- Ultra-compact with a 6.0mm width photointerrupter and 3mm width slot.
- PCB surface mounting type.
- High resolution with a 0.5mm width aperture.
- Moisture sensitivity level : level 4.
- RoHS compliant.

## \*Dimensions

Note:All units are in millimeters unless otherwise indicated.



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### \*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
	Peak Forward Current (Pulse Width <u>&lt;</u> 100uS, Duty Cycle=1%)	IFP	1	А
Output	Collector-emitter voltage	Vceo	20	V
	Emitter-collector voltage	Veco	5	V
	Collector current	lc	20	mA
	Collector power dissipation	Pc	75	mW
Operating temperature		Topr	-40~+85	°C
Storage temperature		Tstg	-40~+90	°C
Soldering temperature[2]		Tsol	260	°C
Manual soldering[2]		Tsol	300	°C

Notes:

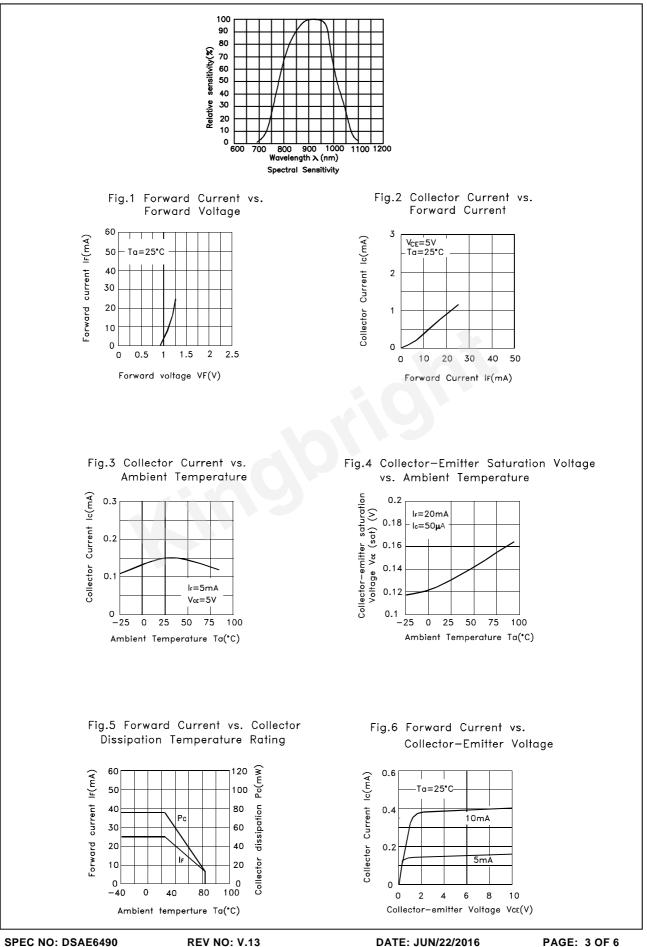
1.Refer to the temperature ratingchart if the ambient temperature exceeds 25°C.

2. Complete soldering within 10 seconds for reflow soldering and within 3 seconds for manual soldering.

Parameter		0 mil al	Value			0
		Symbol	Min.	Тур.	Max.	Conditions
Input	Forward voltage	VF	-	1.1V	1.3V	IF=5mA
	Reverse current	lr	-	-	10μΑ	VR=5V
	Peak Wavelength	λρ	-	940nm	-	IF=20mA
Output	Collector current	lc	50μΑ	150μA	500µA	IF=5mA,Vce=5V
	Collector dark current	lD	-	-	100nA	VCE =10V,0LX
	Collector-emitter saturation voltage	VCE(sat)	-	0.1V	0.4V	Ic=50μΑ, IF=20mA
	Peak spectral sensitivity wavelength	λр	-	920nm	-	-
Rise time		tr	-	8µsec	-	Vcc=5V,
Fall time		tf	-	10µsec	-	R∟=1KΩ Ic=100μA

#### \*Electrical / Optical Characteristics at TA=25°C

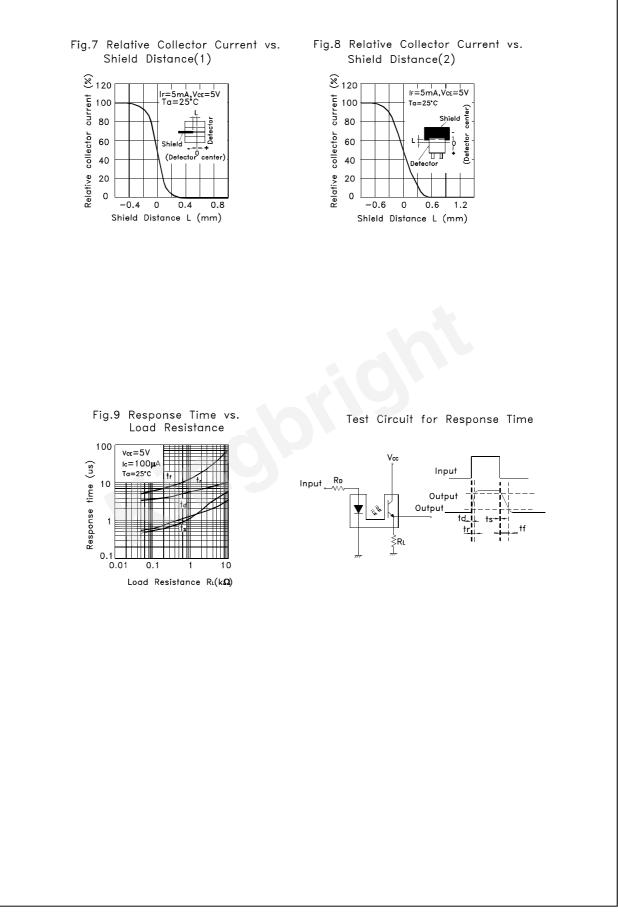
### Part Number :KRB031



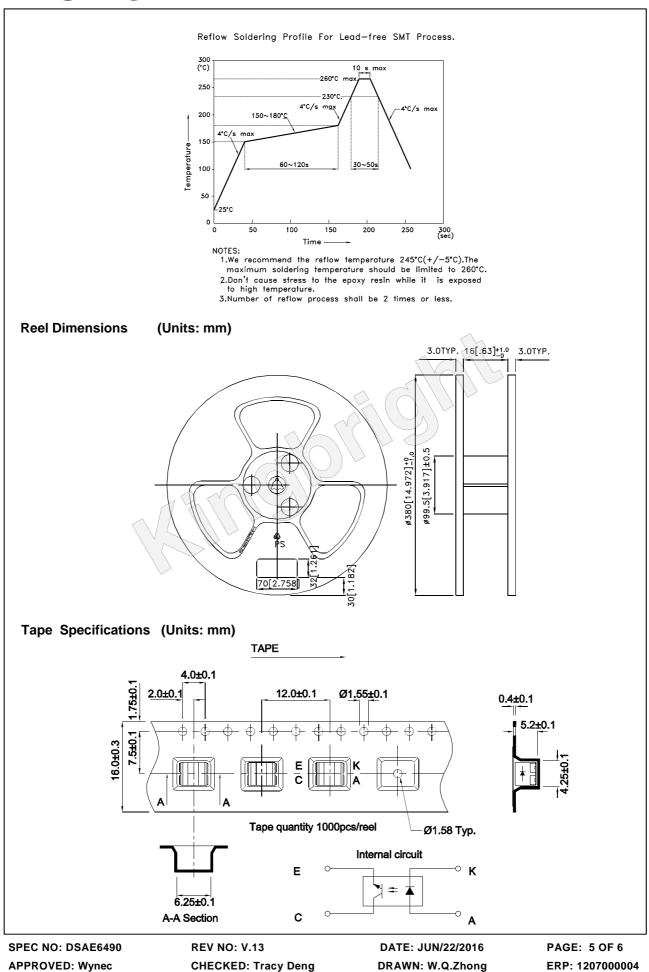
APPROVED: Wynec

CHECKED: Tracy Deng

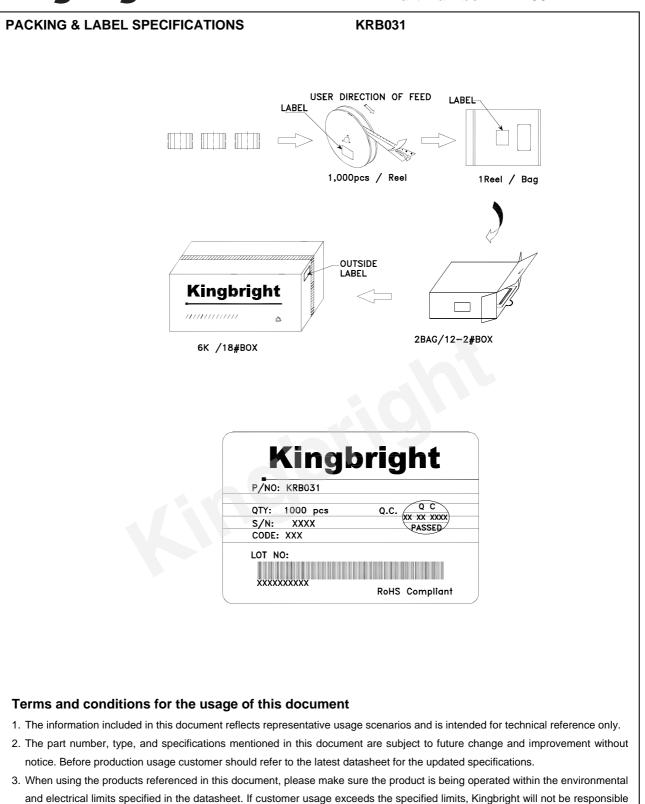
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### Part Number :KRB031



Part Number :KRB031



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for any subsequent issues.