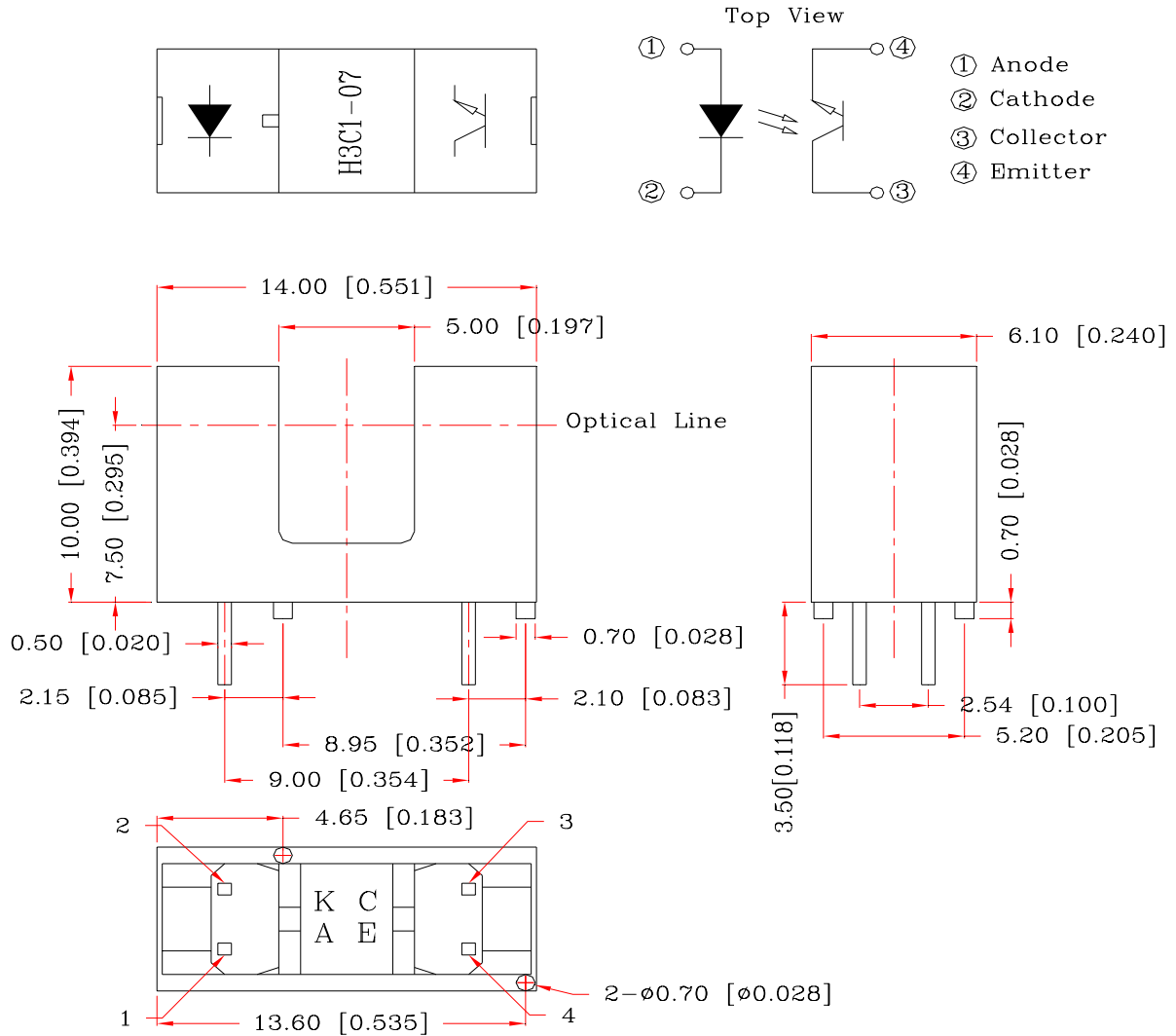


● **Features:**

- \* Non-contact switching.
- \* For direct pc board or dual-in-line socket mounting.
- \* Fast switching speed.
- \* This product doesn't contain restriction substance, comply RoHS standard.

● **Package Dimensions**



**Notes:**

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25\text{mm}$  unless otherwise specified.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

● **Absolute Maximum Rating** (Ta=25°C)

Item		Symbol	Rating	Unit
Input	Power Dissipation	Pd	75	mW
	Reverse Voltage	V <sub>R</sub>	5	V
	Forward Current	I <sub>F</sub>	50	mA
	Peak Forward Current (*1)	I <sub>FP</sub>	1	A
Output	Collector Power Dissipation	P <sub>C</sub>	100	mW
	Collector Current	I <sub>C</sub>	40	mA
	C-E Voltage	V <sub>CEO</sub>	30	V
	E-C Voltage	V <sub>ECO</sub>	5	V
Operating Temperature		Topr	-40 ~ +85	°C
Storage Temperature		Tstg	-40 ~ +100	°C
Soldering Temperature (*2)		Tsol	260	°C

(\*1) tw=100 uSec.、T=10 mSec.

(\*2) t=5 Sec

● **Electrical Optical Characteristics** (Ta=25°C)

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Input	Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =20mA	—	1.2	1.5	V
	Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	—	—	100	μA
Output	Dark Current	I <sub>D</sub>	V <sub>CE</sub> =10V	—	—	100	nA
	Peak sensitivity wavelength	λ <sub>p</sub>	I <sub>F</sub> =10mA	—	940	—	nm
	C-E Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =0.25mA I <sub>F</sub> =10mA	—	—	0.4	V
Light Current		I <sub>L</sub>	V <sub>CE</sub> =5V I <sub>F</sub> =20mA	1.0	—	10.0	mA
Speed	Response Time	Tr · Tr	I <sub>F</sub> =20mA V <sub>CE</sub> =5V R <sub>L</sub> =100Ω	—	20	—	μs

● Typical Electrical / Optical Characteristics Curves (Ta=25°C)

Fig.1 Power Dissipation vs. Ambient Temperature

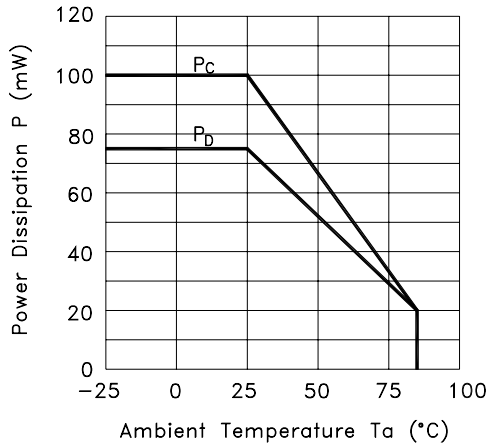


Fig.2 Forward Current vs. Forward Voltage

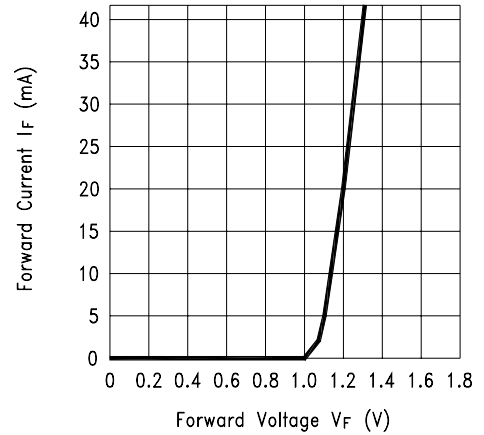


Fig.3 Collector Current vs. Collector-emitter Voltage

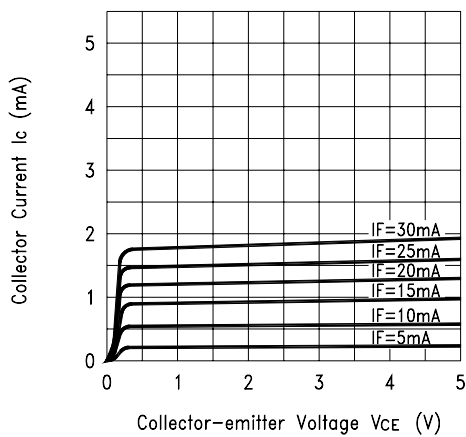
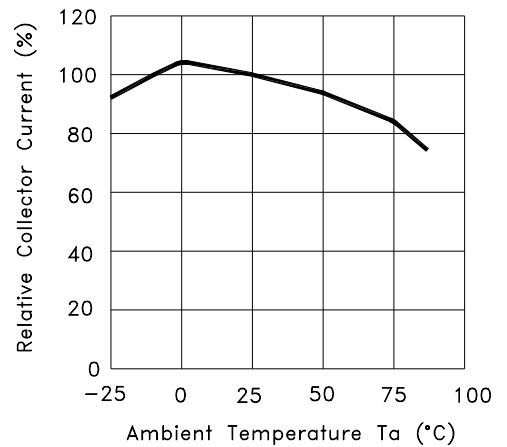


Fig.4 Collector Current vs. Ambient Temperature



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● Typical Electrical / Optical Characteristics Curves (Ta=25°C)

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

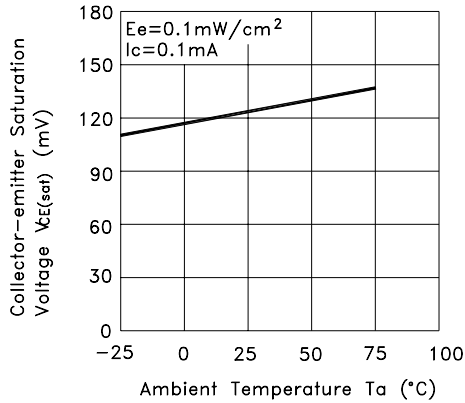


Fig.6 Response Time vs. Load Resistance

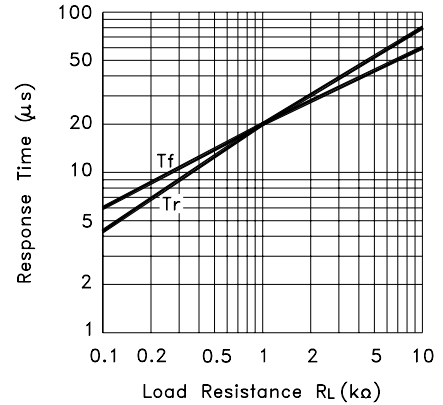
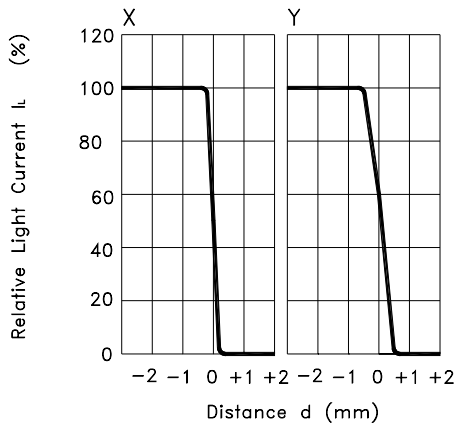
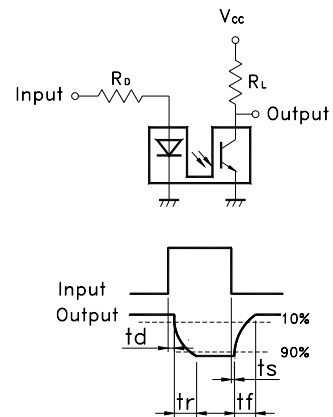


Fig.7 Sensing Position Characteristics (Typical)



(Center of Optical axis)

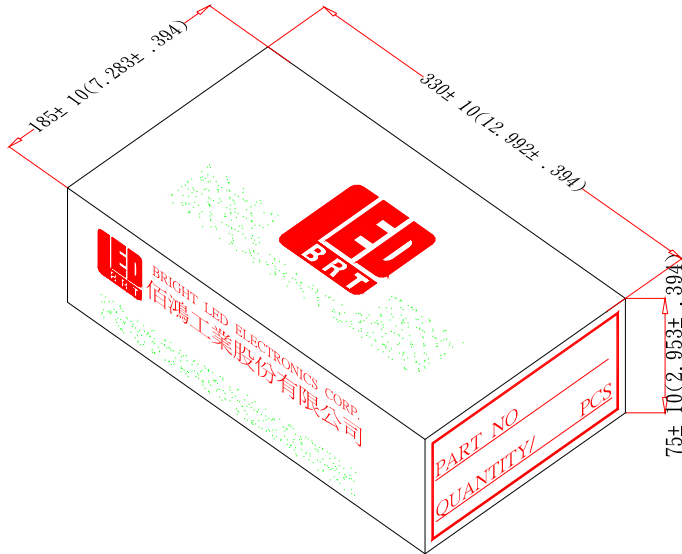
Test Circuit for Response Time



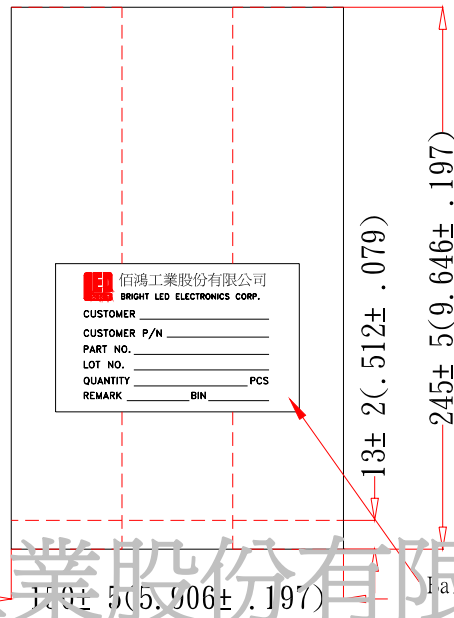
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## ● Packaging Box Dimensions



## ● Packaging Bag Dimensions



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### Notes:

1. 250pcs per bag 1k pcs per box
2. All Dimensions are in millimeters (inches).
3. Specifications are subject to change without notice.

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