

BRIGHT LED ELECTRONICS

- Device Number : BPI-3C1-07
- Absolute Maximum Rating (Ta=25°C)

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Item		Symbol	Rating	Unit
Input	Power Dissipation	Pd	75	mW
	Reverse Voltage	V _R	5	V
	Forward Current	I _F	50	mA
	Peak Forward Current (*1)	I _{FP}	1	A
Output	Collector Power Dissipation	P _C	100	mW
	Collector Current	I _C	40	mA
	C-E Voltage	V _{CEO}	30	V
	E-C Voltage	V _{ECO}	5	V
Operating Temperature		Topr	-25 ~ +85	°C
Storage Temperature		Tstg	-40 ~ +85	°C
Soldering Temperature (*2)		Tsol	260	°C

(*1) tw=100 uSec.、T=10 mSec. (*2) t=5 Sec

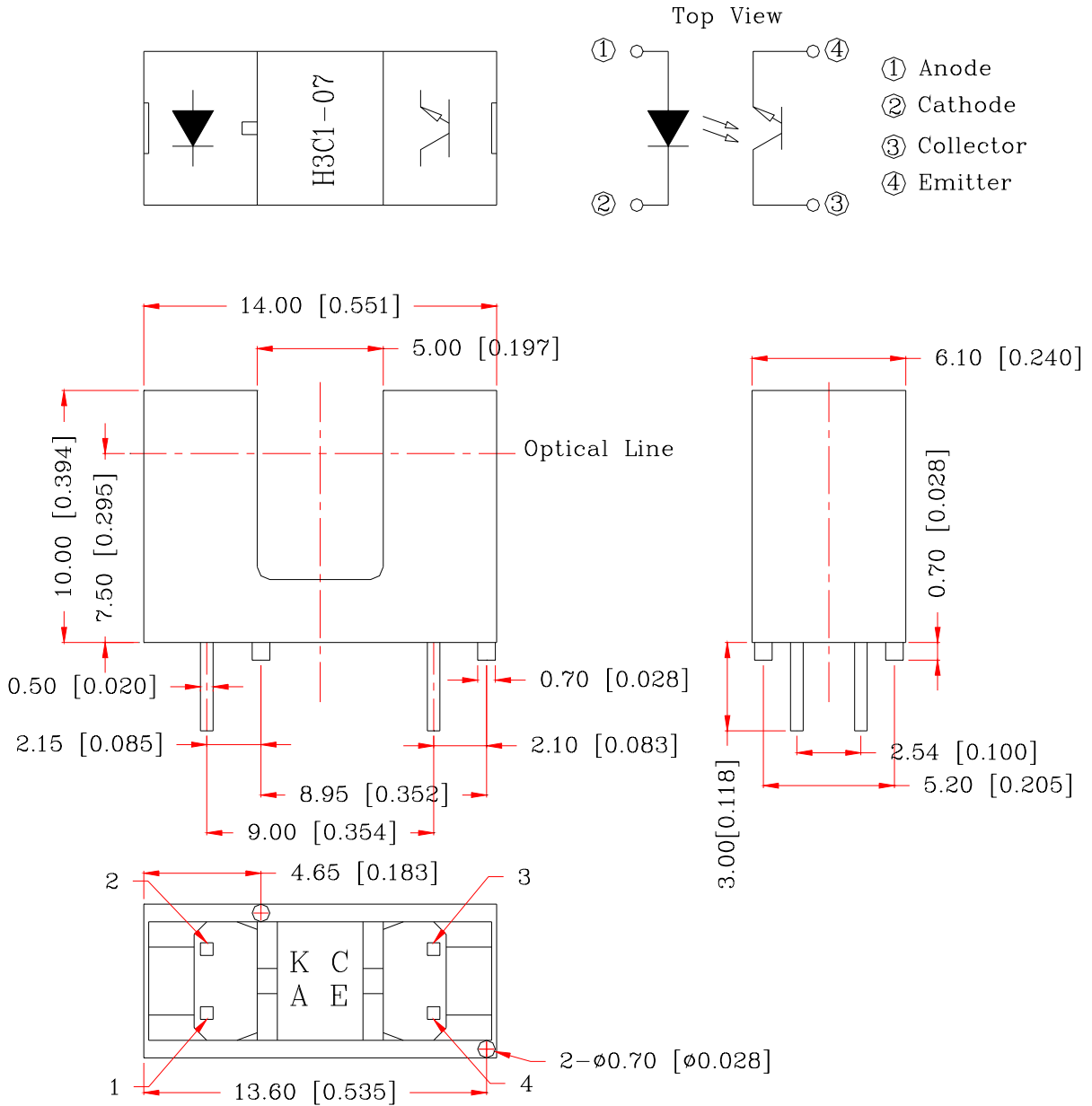
● Electrical Optical Characteristics (Ta=25°C)

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Input	Forward Voltage	V _F	I _F =20mA	—	1.2	1.5	mV
	Reverse Current	I _R	V _R =5V	—	—	100	μA
Output	Dark Current	I _D	V _{CE} =10V	—	—	0.5	μA
	Peak sensitivity wavelength	λ _p	I _F =10mA	—	940	—	nm
	C-E Saturation Voltage	V _{CE(sat)}	I _C =0.25mA I _F =10mA	—	—	0.4	V
Light Current		I _L	V _{CE} =5V I _F =10mA	0.5	—	5	mA
Speed	Response Time	Tr · Tr	I _{FP} =20mA V _{CE} =5V R _L =100Ω	—	10	—	μs

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- Package Dimensions

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Notes:

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

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- Device Number : BPI-3C1-07
- Typical Electrical / Optical Characteristics Curves (Ta=25°C)

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Fig.1 Power Dissipation vs. Ambient Temperature

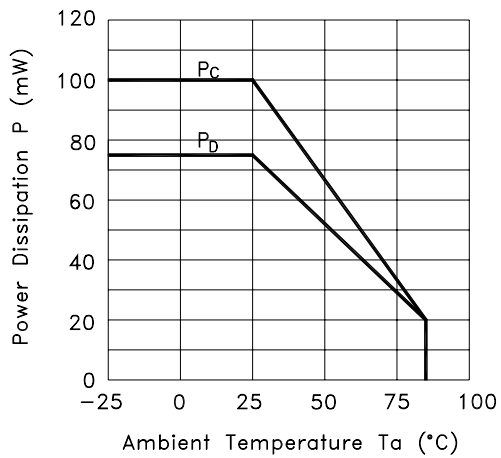


Fig.2 Forward Current vs. Forward Voltage

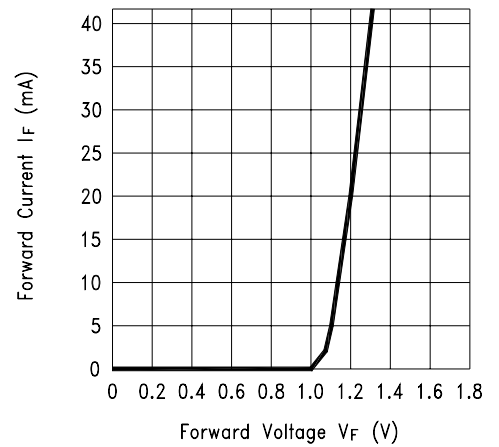


Fig.3 Collector Current vs. Collector-emitter Voltage

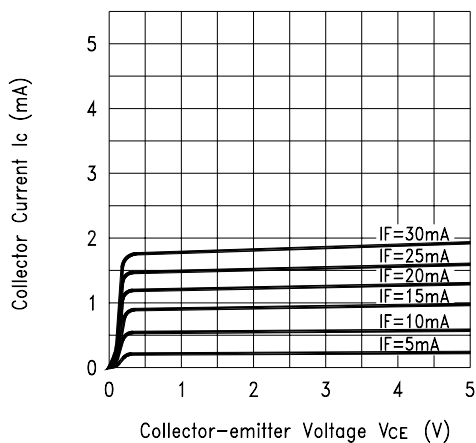
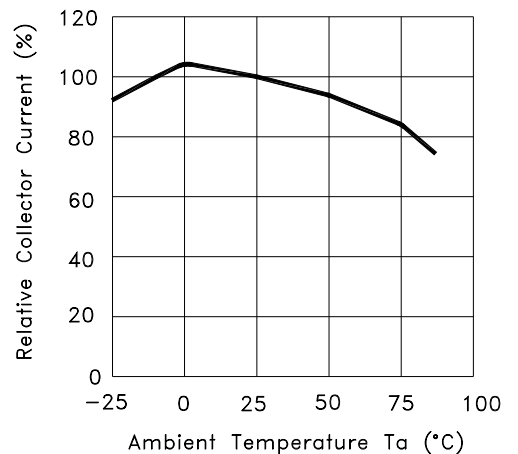


Fig.4 Collector Current vs. Ambient Temperature



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

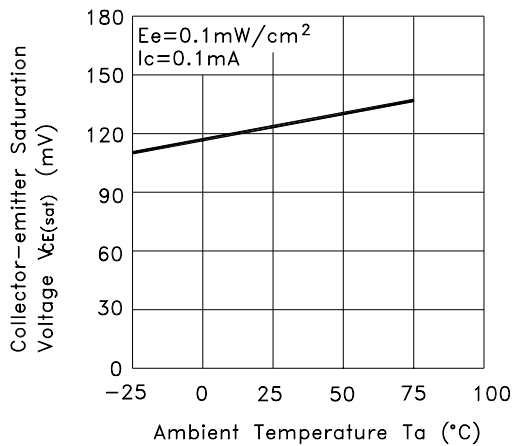


Fig.6 Response Time vs. Load Resistance

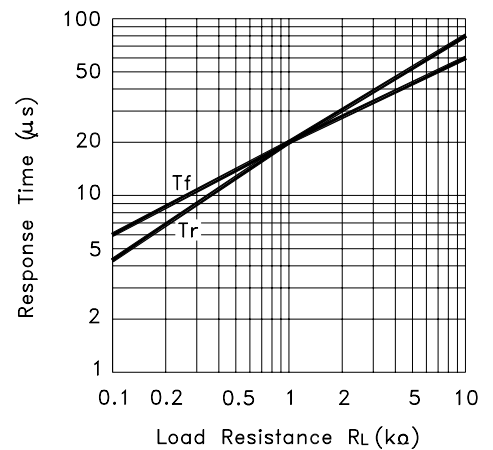
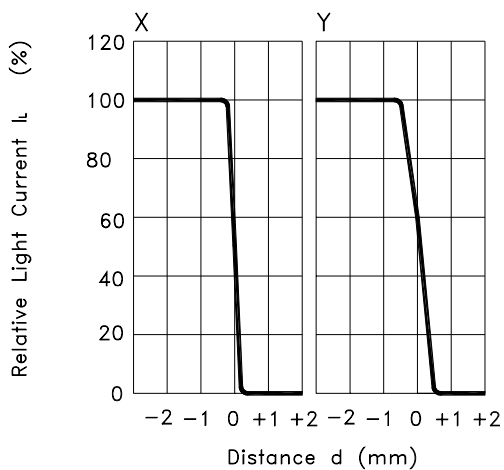
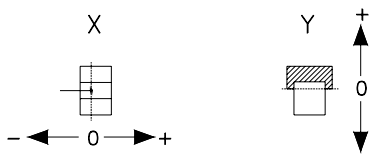


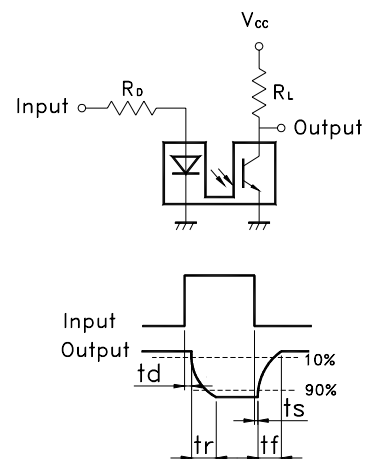
Fig.7 Sensing Position Characteristics (Typical)



(Center of Optical axis)



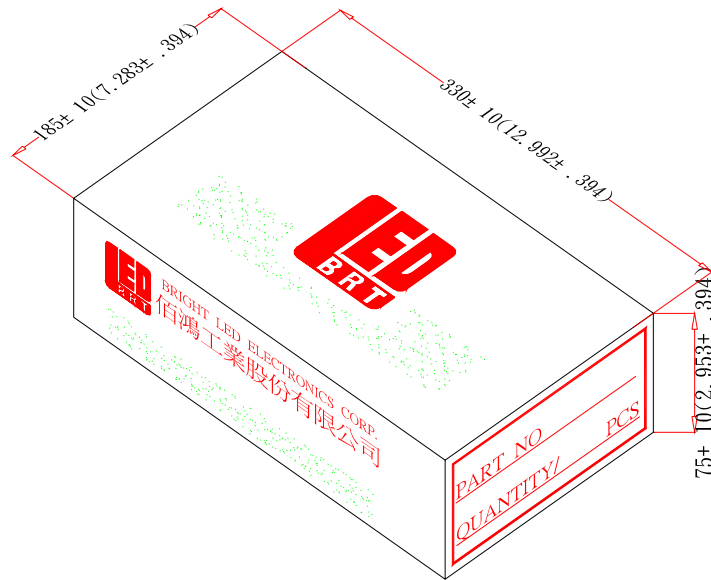
Test Circuit for Response Time



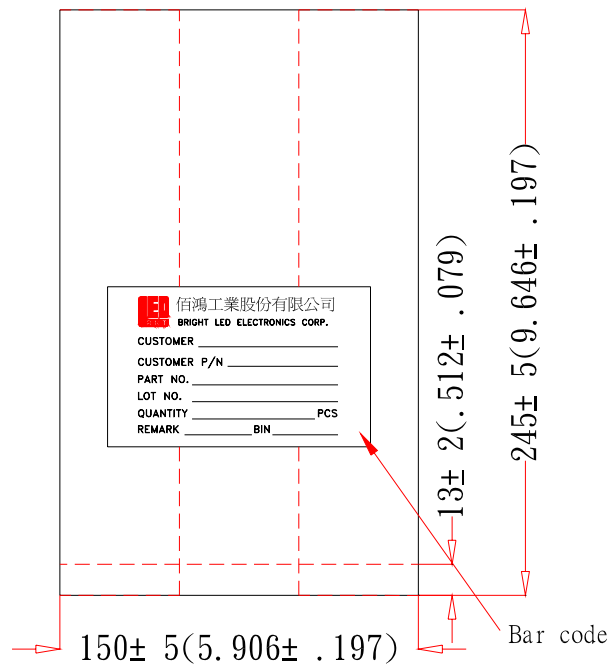
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- Device Number : BPI-3C1-07
- Packaging Box Dimensions

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- Packaging Bag Dimensions



Notes:

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