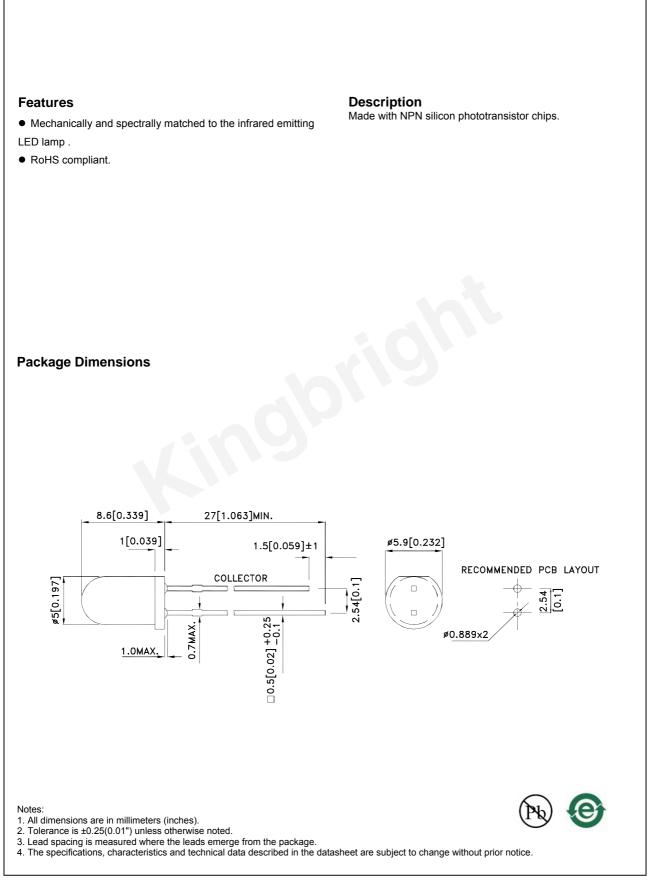
PHOTOTRANSISTOR

Part Number: L-7113P3C



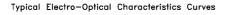
SPEC NO: DSAC9295 APPROVED: WYNEC REV NO: V.15 CHECKED: Allen Liu DATE: MAR/02/2015 DRAWN: L.Q.Xie PAGE: 1 OF 6 ERP: 1101005148

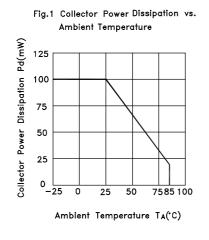
Symbol	Parameter	Min.	Тур.	Max.	Units	Test Conditions
VBR CEO	Collector-to-Emitter Breakdown Voltage	30			V	Ic=100uA Ee=0mW/cm ²
VBR ECO	Emitter-to-Collector Breakdown Voltage	5			v	IE=100uA Ee=0mW/cm ²
VCE (SAT)	Collector-to-Emitter Saturation Voltage			0.8	V	Ic=2mA Ee=20mW/cm ²
I CEO	Collector Dark Current			100	nA	Vce=10V Ee=0mW/cm ²
Tr	Rise Time (10% to 90% $)$		15		us	Vce = 5V Ic=1mA RL=1000Ω
TF	Fall Time (90% to 10%)		15		us	
I (ON)	On State Collector Current	0.5	2.5		mA	$V_{CE} = 5V$ Ee=1mW/cm ² λ =940nm
201/2	Angle of half sensitivity	-	20	-	deg	-

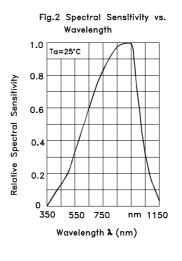
Electrical / Optical Characteristics at TA=25°C

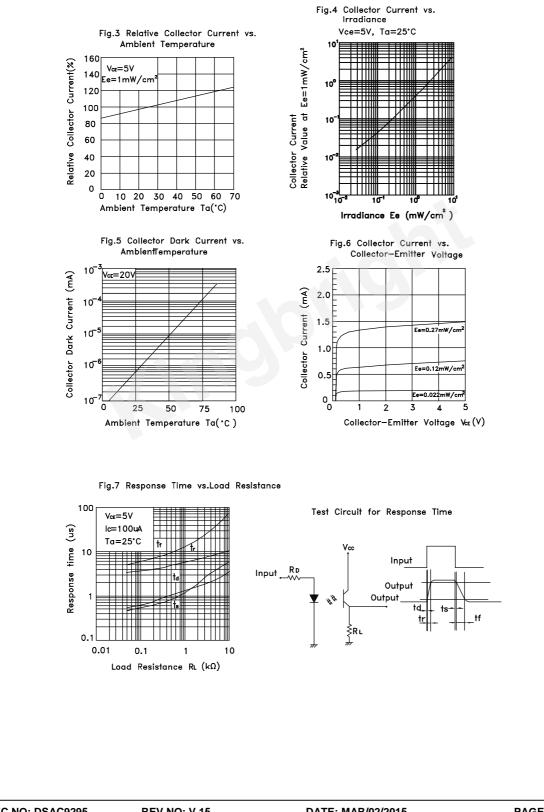
Absolute Maximum Ratings at TA=25°C

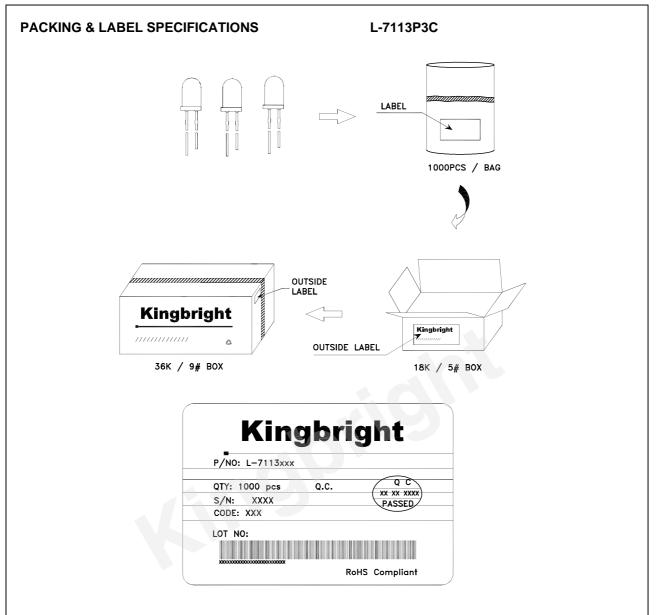
Parameter	Max.Ratings		
Collector-to-Emitter Voltage	30V		
Emitter-to-Collector Voltage	5V		
Power Dissipation at (or below) 25°C Free Air Temperature	100mW		
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		
Lead Soldering Temperature (>5mm for 5sec)	260°C		









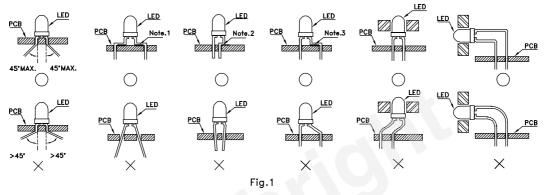


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PRECAUTIONS

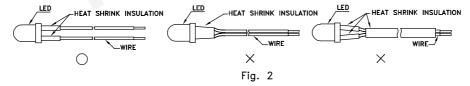
- 1. Storage conditions:
 - a.Avoid continued exposure to the condensing moisture environment and keep the product away from rapid transitions in ambient temperature.
 - b.LEDs should be stored with temperature \leq 30°C and relative humidity < 60%.
 - c.Product in the original sealed package is recommended to be assembled within 72 hours of opening. Product in opened package for more than a week should be baked for 30 (+10/-0) hours at 85 ~ 100°C.
- 2. The lead pitch of the LED must match the pitch of the mounting holes on the PCB during component placement. Lead-forming may be required to insure the lead pitch matches the hole pitch. Refer to the figure below for proper lead forming procedures. (Fig. 1)



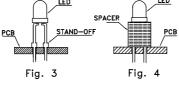
" \bigcirc " Correct mounting method "imes" Incorrect mounting method

Note 1-3: Do not route PCB trace in the contact area between the leadframe and the PCB to prevent short-circuits.

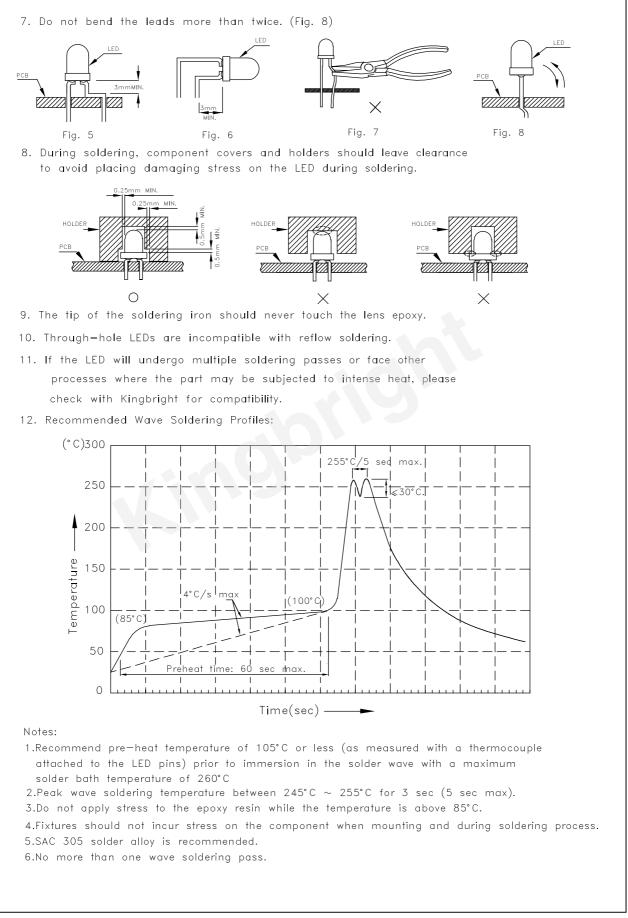
3. When soldering wires to the LED, each wire joint should be separately insulated with heat-shrink tube to prevent short-circuit contact. Do not bundle both wires in one heat shrink tube to avoid pinching the LED leads. Pinching stress on the LED leads may damage the internal structures and cause failure. (Fig. 2)



4. Use stand-offs (Fig.3) or spacers (Fig.4) to securely position the LED above the PCB.



- 5. Maintain a minimum of 3mm clearance between the base of the LED lens and the first lead bend. (Fig. 5 and 6)
- 6. During lead forming, use tools or jigs to hold the leads securely so that the bending force will not be transmitted to the LED lens and its internal structures. Do not perform lead forming once the component has been mounted onto the PCB. (Fig. 7)



DATE: MAR/02/2015 DRAWN: L.Q.Xie