

3.2x1.6mm PHOTOTRANSISTOR

Part Number: KP-3216P3C

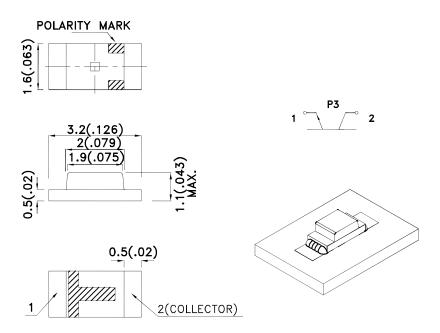
Features

- 3.2mmx1.6mm SMT LED, 1.1mm thickness.
- Mechanically and spectrally matched to infrared emitting LED lamp.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

Made with NPN silicon phototansistor chips.

Package Dimensions



- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.2(0.0079") unless otherwise noted.
- Specifications are subject to change without notice.
 The device has a single mounting surface. The device must be mounted according to the specifications.





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Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Min.	Тур.	Max.	Units	Test Conditions
VBR CEO	Collector-to-Emitter Breakdown Voltage	30			V	Ic=100uA Ee=0mW/c m²
VBR ECO	Emitter-to-Collector Breakdown Voltage	5			V	IE=100uA Ee=0mW/c m³
VCE (SAT)	Collector-to-Emitter Saturation Voltage			0.8	V	Ic=2mA Ee=20mW/c m²
I CEO	Collector Dark Current			100	nA	Vc=10V Ee=0mW/c m³
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	0.1	0.3		mA	VcE = 5V Ee=1mW/c m³ λ=940nm
201/2	Viewing Angle		120		deg	

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			

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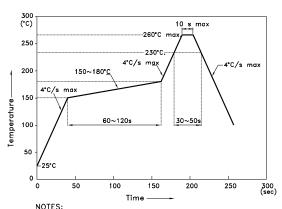
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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



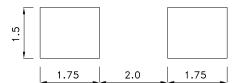
- NOTES:

 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.
- to high temperature.

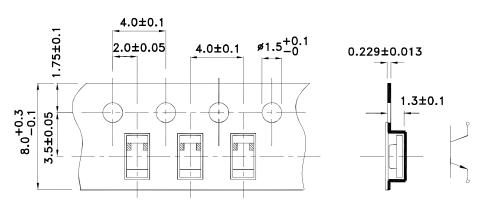
 3.Number of reflow process shall be 2 times or less.

Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Tape Specifications (Units: mm)

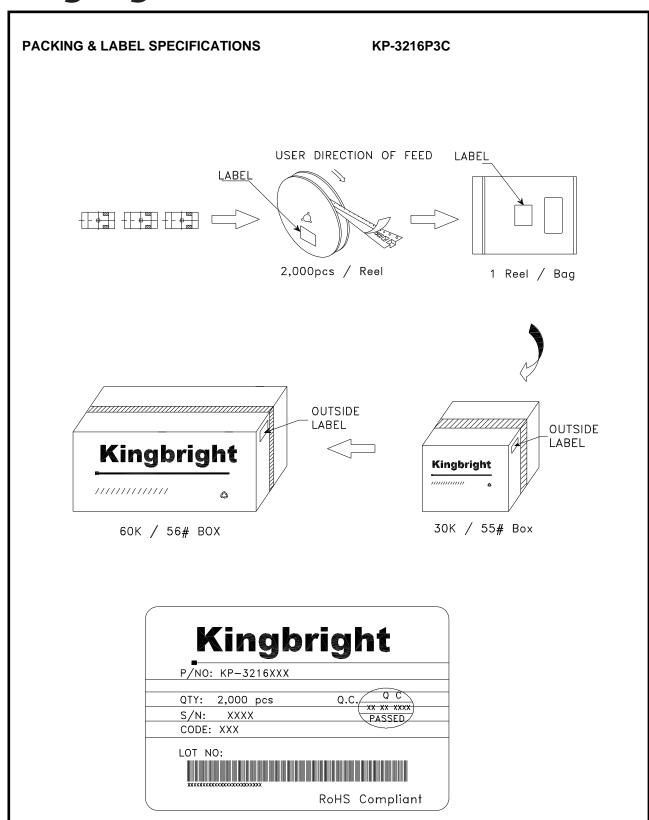
TAPE



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