### 3.2x1.6mm PHOTOTRANSISTOR

Part Number: KP-3216P3C

#### Features

- 3.2mmx1.6mm SMD 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 phototransistor chips.

#### Package Dimensions



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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 mំ
VBR ECO	Emitter-to-Collector Breakdown Voltage	5			v	l∈=100uA Ee=0mW/c mঁ
VCE (SAT)	Collector-to-Emitter Saturation Voltage			0.8	v	lc=2mA Ee=20mW/c m²
I CEO	Collector Dark Current			100	nA	Vce=10V Ee=0mW/c m <sup>°</sup>
Tr	Rise Time (10% to 90% )		15		us	Vce = 5V lc=1mA RL=1000Ω
Tf	Fall Time (90% to 10% )		15		us	
I (ON)	On State Collector Current	0.2	0.4		mA	Vce = 5V Ee=1mW/c m <sup>²</sup> λ=940nm

#### 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		

Note:

1. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

Typical Electro-Optical Characteristics Curves







### KP-3216P3C

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.



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