

Kingbright

PHOTOTRANSISTOR

AP3216P3C

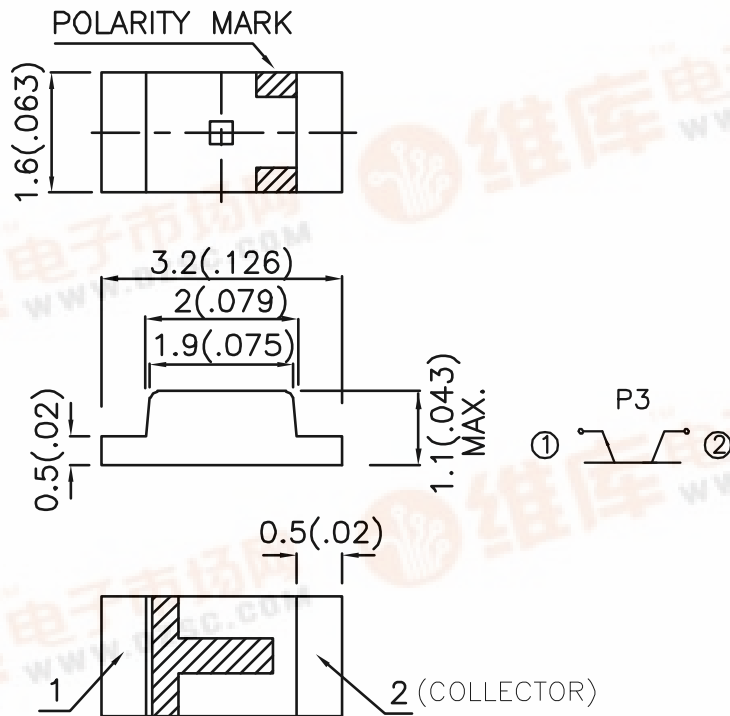
Features

- MECHANICALLY AND SPECTRALLY MATCHED TO THE AP3216 SERIES INFRARED EMITTING LED LAMP.
- WATER CLEAR LENS.
- PACKAGE : 2000PCS / REEL.
- RoHS COMPLIANT.

Description

Made with NPN silicon phototransistor chips.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.2(0.008)$ " unless otherwise noted.
3. Specifications are subject to change without notice.



Electrical / Optical Characteristics at T_A=25°C

| Symbol | Parameter | Min. | Typ. | Max. | Units | Test Conditions |
|-----------------------|---|------|------|------|-------|---|
| V _{BR CEO} | Collector-to-Emitter Breakdown Voltage | 30 | - | - | V | I _C =100uA E _e =0mW/cm ² |
| V _{BR ECO} | Emitter-to-Collector Breakdown Voltage | 5 | - | - | V | I _E =100uA E _e =0mW/cm ² |
| V _{CE (SAT)} | Collector-to-Emitter Saturation Voltage | - | - | 0.8 | V | I _C =2mA E _e =20mW/cm ² |
| I _{CEO} | Collector Dark Current | - | - | 100 | nA | V _{CE} =10V E _e =0mW/cm ² |
| T _R | Rise Time (10% to 90%) | - | 3 | - | us | V _{CE} = 5V I _C =1mA R _L =1000Ω |
| T _F | Fall Time (90% to 10%) | - | 3 | - | us | |
| I _(ON) | On State Collector Current | 0.1 | 0.3 | - | mA | V _{CE} = 5V, E _e =1mW/cm ² , λ=940nm |
| 2θ _{1/2} | Viewing Angle | - | 120 | - | deg | - |

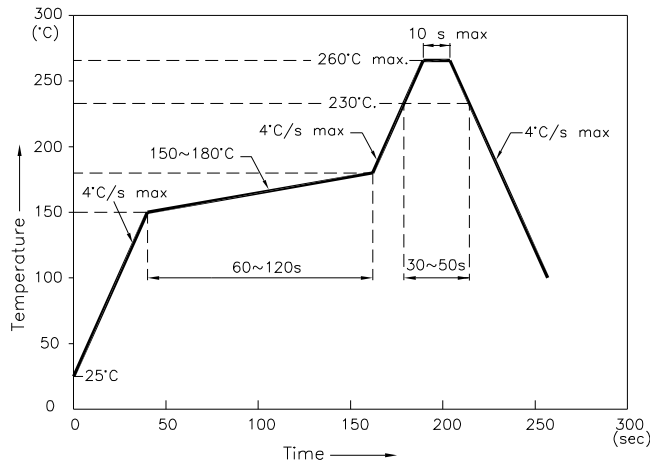
Absolute Maximum Ratings at T_A=25°C

| Parameter | Max.Ratings |
|---|---------------|
| Collector-to-Emitter Breakdown Voltage | 30V |
| Emitter-to-Collector Breakdown Voltage | 5V |
| Power Dissipation at (or below) 25°C Free Air Temperature | 100mW |
| Operating Temperature Range | -40°C ~ +85°C |
| Storage Temperature Range | -40°C ~ +85°C |

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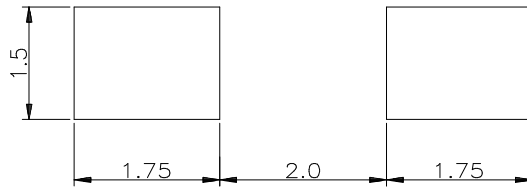
Reflow Soldering Profile For Lead-free SMT Process.



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

Recommended Soldering Pattern (Units : mm)



Tape Specifications (Units : mm)

