

APKF3030SEXXC/E HYPER ORANGE

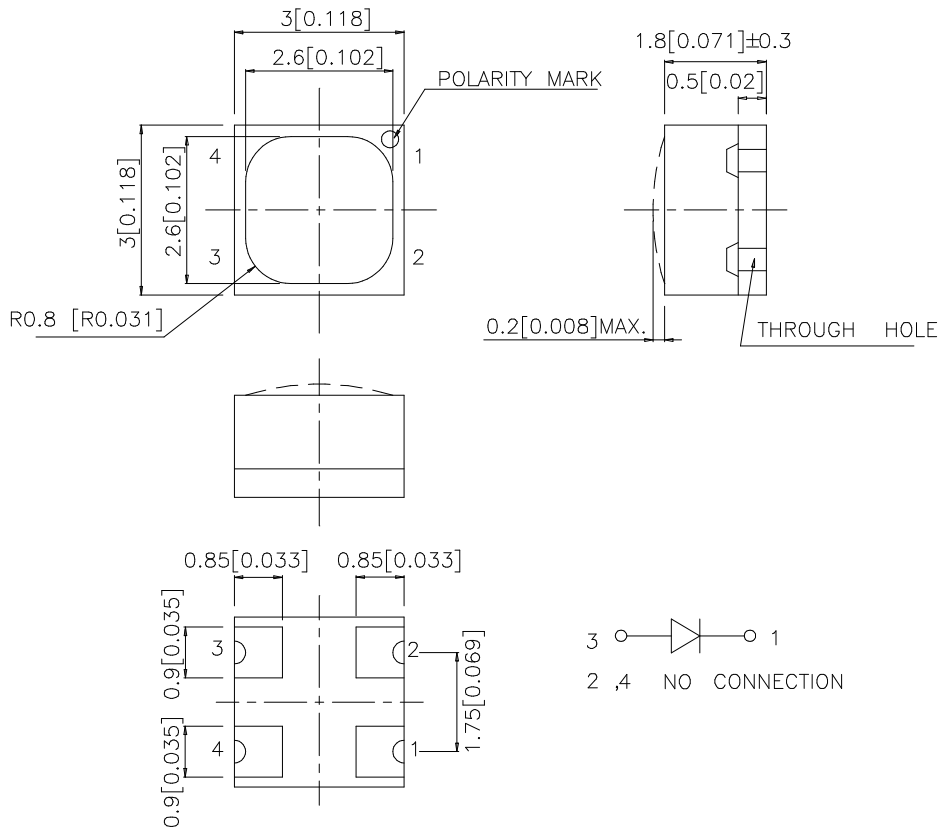
Features

- LOW POWER CONSUMPTION.
- 3.0mmx3.0mm SMT LED, 2.0mm(MAX.) THICKNESS.
- ONE ORANGE CHIP IN ONE PACKAGE.
- CAN PRODUCE ANY COLOR IN VISIBLE SPECTRUM, INCLUDING WHITE LIGHT.
- PACKAGE : 1000PCS / REEL.

Description

The Hyper Orange source color devices are made with DH InGaAlP on GaAs substrate Light Emitting Diode.

Package Dimensions



Notes:

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

Selection Guide

| Part No. | Dice | Lens Type | Iv (mcd) @ 20mA | | Viewing Angle |
|-----------------|------------------------|-------------|--------------------|------|------------------|
| | | | Min. | Typ. | 2θ1/2 |
| APKF3030SEXXC/E | HYPER ORANGE (InGaAlP) | WATER CLEAR | 180 | 400 | 100° |

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at T_A=25°C

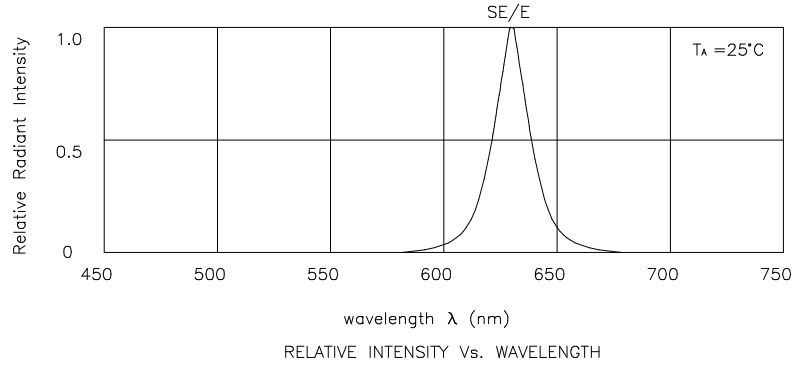
| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|-------------------|--------------------------|--------------|------|------|-------|-------------------------------|
| λ _{peak} | Peak Wavelength | Hyper Orange | 630 | | nm | I _F = 20mA |
| λ _D | Dominate Wavelength | Hyper Orange | 621 | | nm | I _F = 20mA |
| Δλ _{1/2} | Spectral Line Half-width | Hyper Orange | 20 | | nm | I _F = 20mA |
| C | Capacitance | Hyper Orange | 25 | | pF | V _F = 0V; f = 1MHz |
| V _F | Forward Voltage | Hyper Orange | 2.0 | 2.5 | V | I _F = 20mA |
| I _R | Reverse Current | Hyper Orange | | 10 | uA | V _R = 5V |

Absolute Maximum Ratings at T_A=25°C

| Parameter | Hyper Orange | Units |
|-------------------------------|----------------|-------|
| Power dissipation | 150 | mW |
| DC Forward Current | 30 | mA |
| Peak Forward Current [1] | 195 | mA |
| Reverse Voltage | 5 | V |
| Operating/Storage Temperature | -40°C To +85°C | |

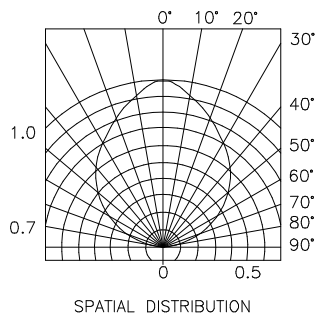
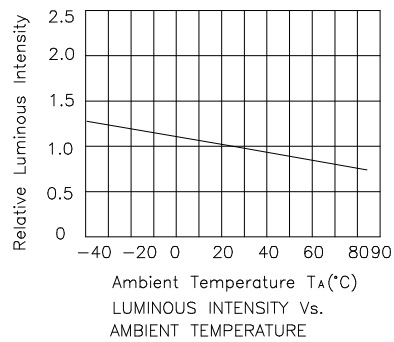
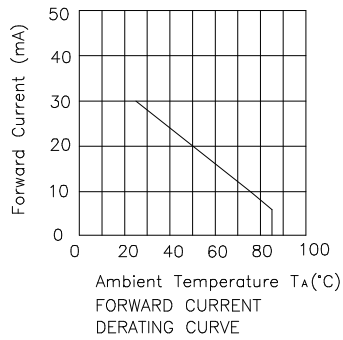
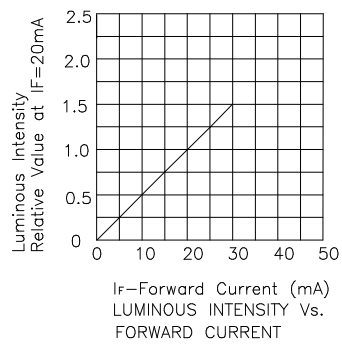
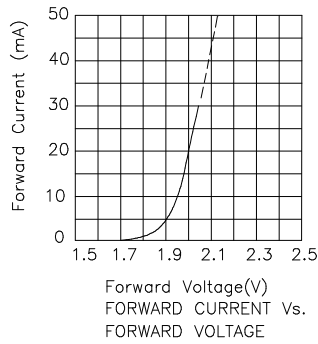
Note:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.



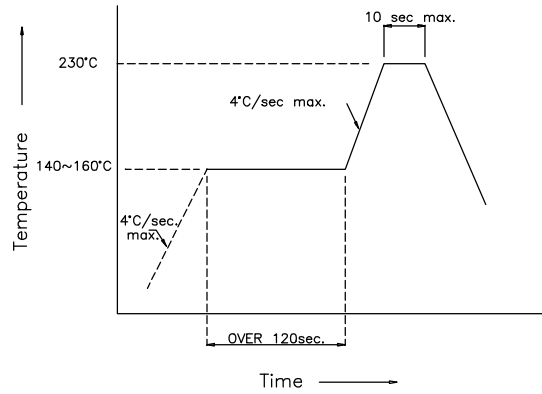
Hyper Orange

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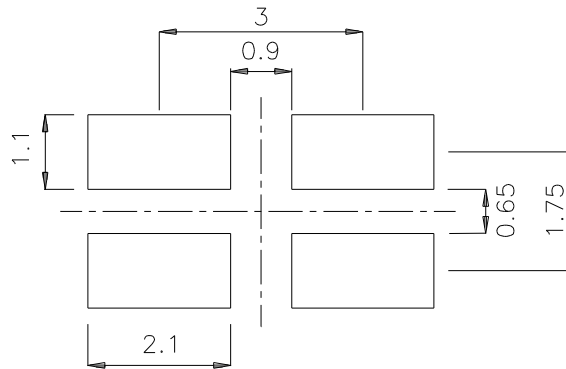


APKF3030SEXXC/E SMT Reflow Soldering Instructions

Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.



Recommended Soldering Pattern (Units : mm)



Tape Specifications (Units : mm)

