

KP-3216SF4C

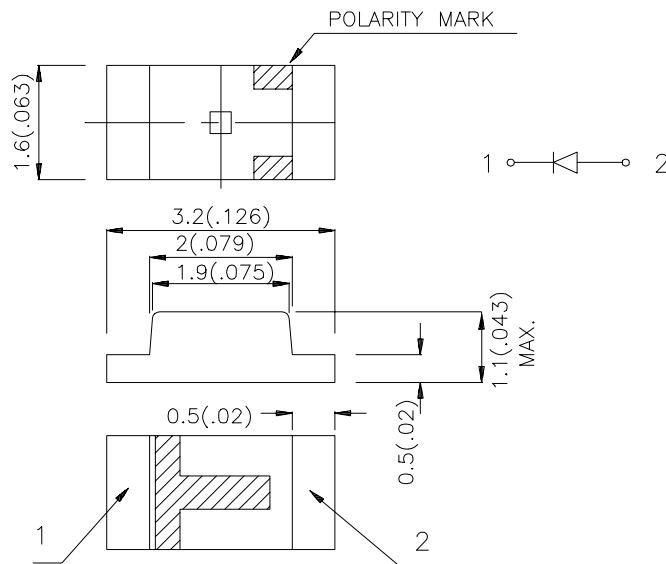
Features

- 3.2mmx1.6mm SMT LED, 1.1mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.
- PACKAGE : 2000PCS / REEL.

Description

SF4 Made with Gallium Aluminum Arsenide Infrared Emitting diodes.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.2(0.0079)$ unless otherwise noted.
3. Specifications are subject to change without notice.

Selection Guide

| Part No. | Dice | Lens Type | Po= (mW/sr) @ 20 mA | | Viewing Angle |
|-------------|--------|-------------|------------------------|------|------------------|
| | | | Min. | Typ. | 2θ1/2 |
| KP-3216SF4C | GaAlAs | WATER CLEAR | 0.4 | 1 | 120° |

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

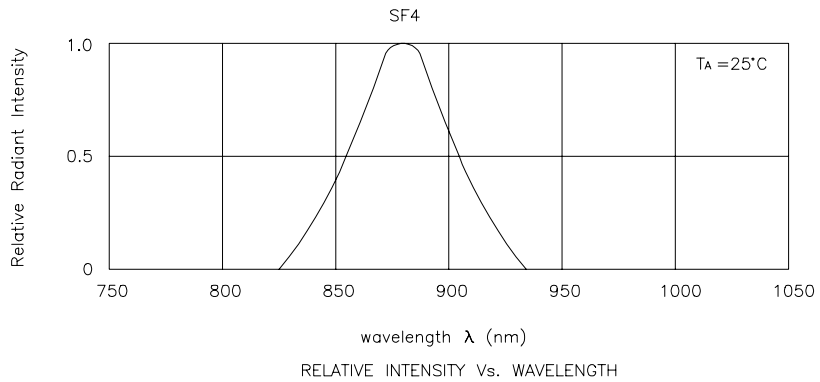
| Parameter | P/N | Symbol | Typ. | Max. | Unit | Condition |
|-----------------------------|-----|----------------|------|------|------|----------------------------|
| Forward Voltage | SF4 | V _F | 1.3 | 1.6 | V | I _F =20mA |
| Reverse Current | SF4 | I _R | - | 10 | μA | V _R =5V |
| Capacitance | SF4 | C | 90 | - | pF | V _F =0V; f=1MHz |
| Wavelength at peak emission | SF4 | λ _P | 880 | - | nm | I _F =20mA |
| Spectral line half-width | SF4 | Δλ 1/2 | 50 | - | nm | I _F =20mA |

Absolute Maximum Ratings at T_A=25°C

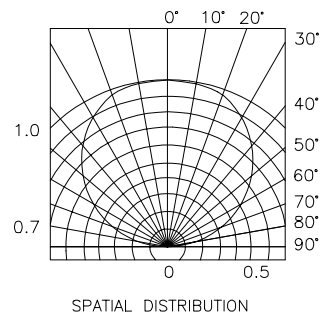
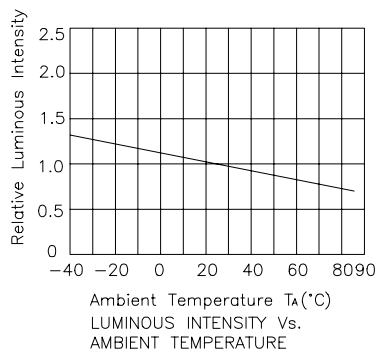
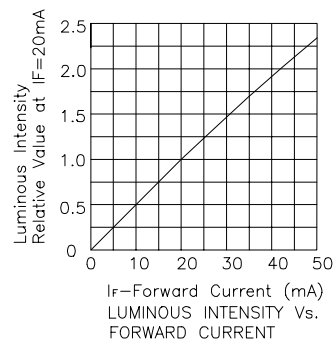
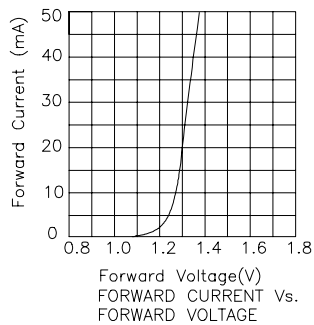
| Item | Symbol | SF4 | Units |
|-------------------------|------------------|----------|-------|
| Power Dissipation | P _T | 100 | mW |
| Forward Current | I _F | 50 | mA |
| Peak Forward Current[1] | i _{FS} | 1.2 | A |
| Reverse Voltage | V _R | 5 | V |
| Operating Temperature | T _A | -40~ +85 | °C |
| Storage Temperature | T _{STG} | -40~ +85 | °C |

Note:

1. 1/100 Duty Cycle, 10ms Pulse Width.



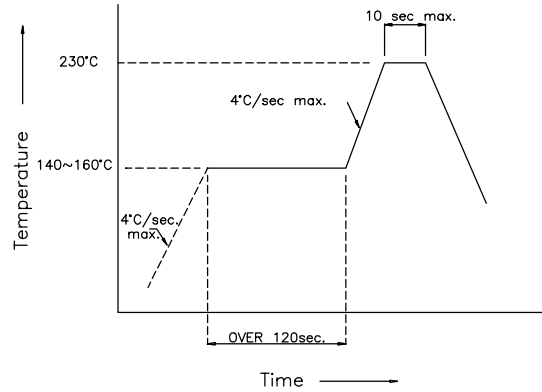
KP-3216SF4C



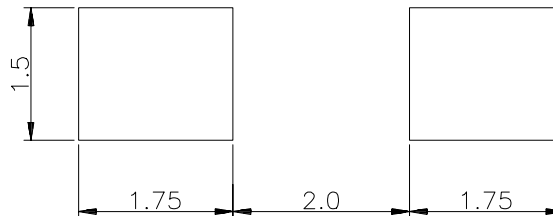
KP-3216SF4C

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)

