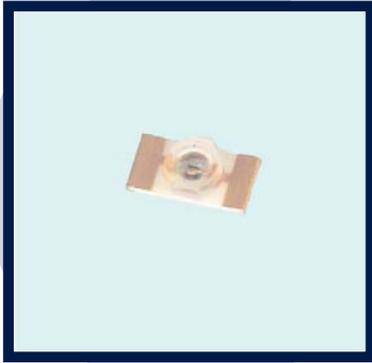


# Dialight

## 597-6XX1-60XF SERIES microLED® SMD LEDs REVERSE MOUNT 1206 PACKAGE (3.2MM X 1.6MM X 1.1MM)



Note: -602F = Pkg 20 pcs / strip  
-607F = Pkg 3000 pcs / 7" reel

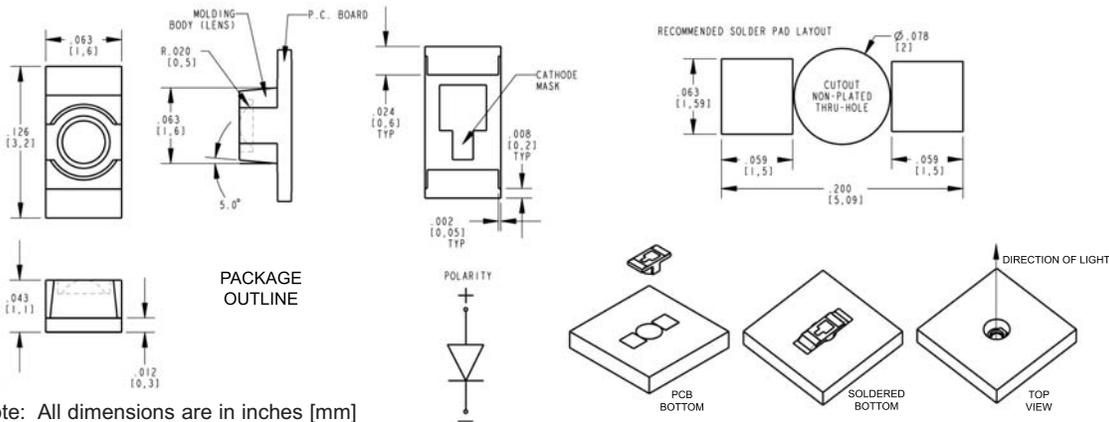
### FEATURES / BENEFITS

- ▲ RoHS Compliant
- ▲ Gold (Au) plated lead finish
- ▲ Compatible with automatic placement equipment
- ▲ Compatible with RoHS compliant surface mount reflow soldering processes
- ▲ Packaged in moisture barrier bags for dry packaging per IPC/JEDEC J-STD-033, moisture sensitivity level 3

### APPLICATIONS

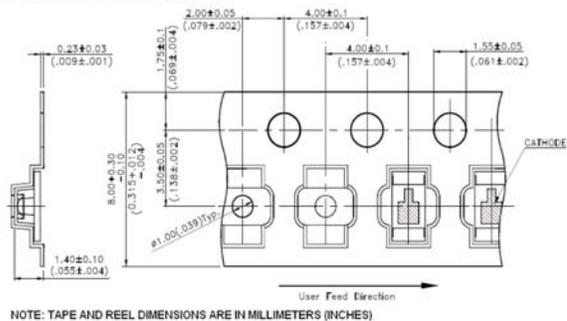
Reverse mount 597 series microLED® are available in a variety of colors in AlInGaP and InGaN chip technology for high brightness applications. Reverse mount channels the light into various applications such as light pipes, and backlighting.

### SPECIFICATIONS

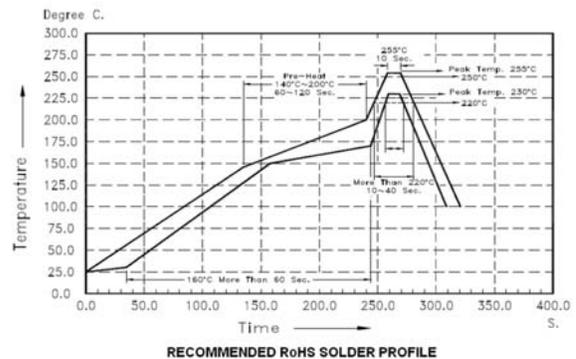


Note: All dimensions are in inches [mm]

#### Package Dimensions Of Tape And Reel



NOTE: TAPE AND REEL DIMENSIONS ARE IN MILLIMETERS (INCHES)



DIALIGHT RESERVES THE RIGHT TO MAKE CHANGES AT ANY TIME IN ORDER TO SUPPLY THE BEST PRODUCT POSSIBLE.

Dialight Corporation

1501 Route 34 South • Farmingdale, NJ 07727 USA

Tel: (1) 732-919-3119 • Fax: (1) 732-751-5778 • www.dialight.com



MDEF597RM001\_A

# 1206 REVERSE MOUNT LED PACKAGE (3.2MM X 1.6MM X 1.1MM) SINGLE COLOR

## OPERATING CHARACTERISTICS @ 25°C AMBIENT

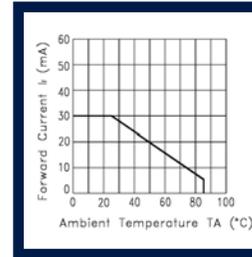
| PART NUMBER          | EMITTED COLOR | MATERIAL | LENS COLOR  | *LUMINOUS INTENSITY @ I <sub>F</sub> = 20mA (mcd) |     |       | *FORWARD VOLTAGE @ I <sub>F</sub> = 20mA (mcd) |     |      | REVERSE CURRENT (μA) | DOMINANT WAVELENGTH (nm) |     |     | PEAK WAVELENGTH (nm) | VIEWING ANGLE (DEG) |
|----------------------|---------------|----------|-------------|---|-----|-------|--|-----|------|----------------------|--------------------------|-----|-----|----------------------|---------------------|
|                      |               |          |             | MIN   | TYP | MAX   | MIN  | TYP | MAX  |                      | MIN                      | TYP | MAX |                      |                     |
| 597-6001-602F, -607F | Red           | AlInGaP  | Water Clear | 18.0  |     | 280.0 |  | 2.0 | 2.4  | 10                   |                          | 631 |     | 639                  | 70                  |
| 597-6201-602F, -607F | Orange        | AlInGaP  | Water Clear | 71.0  |     | 450.0 |  | 2.0 | 2.4  | 10                   |                          | 605 |     | 611                  | 70                  |
| 597-6301-602F, -607F | Green         | InGaN    | Water Clear | 112.0   |     | 710.0 | 2.8  |     | 3.8  | 100                  |                          | 525 |     | 530                  | 70                  |
| 597-6401-602F, -607F | Yellow        | AlInGaP  | Water Clear | 28.0  |     | 450.0 |  | 2.0 | 2.4  | 10                   |                          | 587 |     | 588                  | 70                  |
| 597-6501-602F, -607F | Yellow -Green | AlInGaP  | Water Clear | 28.0  |     | 180.0 | 1.8  |     | 2.4  | 10                   |                          | 567 | 577 | 574                  | 70                  |
| 597-6601-602F, -607F | Blue          | InGaN    | Water Clear | 45.0  |     | 180.0 |  | 3.0 | 3.8  | 100                  |                          | 465 |     | 468                  | 70                  |
| 597-6901-602F, -607F | White         | InGaN    | Yellow      | 28.0  |     | 112.0 | 2.7  |     | 3.15 | 10                   |                          | **  |     |                      | 70                  |

\*Luminous intensity and forward voltage for white are measured @ 5mA

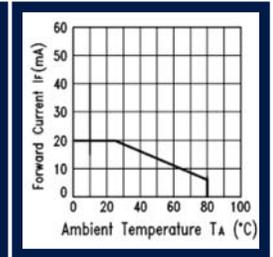
\*\*Chromaticity coordinates for white (nm): x = 0.304, y = 0.301

| ABSOLUTE MAX RATINGS @ 25°C AMBIENT                 | COLOR      |        |        |                |       |      |       | UNITS   |
|---|------------|--------|--------|----------------|-------|------|-------|---------|
|   | RED        | ORANGE | YELLOW | YELLOW - GREEN | GREEN | BLUE | WHITE |         |
| Power Dissipation                                   | 75         |        |        | 76             |       |      | 70    | mW      |
| DC Forward Current                                  | 30         |        |        | 20             |       |      |       | mA      |
| Peak Forward Current (1/10 Duty Cycle, 0.1ms PULSE) | 80         |        |        | 100            |       |      |       | mA      |
| Derate Linearly from 25°C                           | 0.4        |        |        | 0.25           |       |      |       | mA / °C |
| Reverse Voltage                                     | 5          |        |        |                |       |      |       | V       |
| Storage Temperature                                 | -55 to +85 |        |        |                |       |      |       | °C      |
| Operating Temperature                               | -55 to +85 |        |        |                |       |      |       | °C      |
| Soldering Temperature, for 5 sec                    | 260        |        |        |                |       |      |       | °C      |

DERATING CURVE



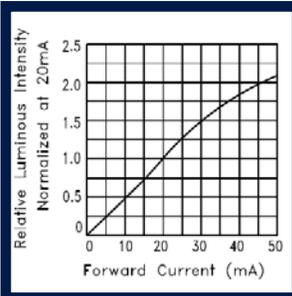
DERATING CURVE



AlInGaP Red  
AlInGaP Orange  
AlInGaP Yellow  
AlInGaP Yellow-Green

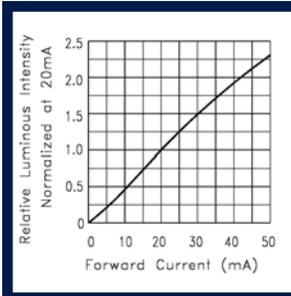
InGaN Green  
InGaN Blue  
InGaN Yellow  
InGaN White

RELATIVE INTENSITY V. FORWARD CURRENT



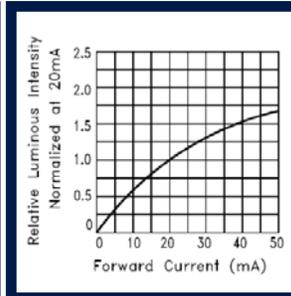
AlInGaP Red

RELATIVE INTENSITY V. FORWARD CURRENT



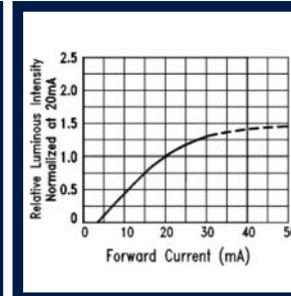
AlInGaP Orange, Yellow

RELATIVE INTENSITY V. FORWARD CURRENT



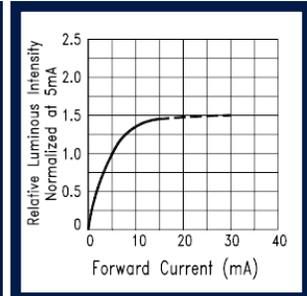
AlInGaP Yellow-Green

RELATIVE INTENSITY V. FORWARD CURRENT



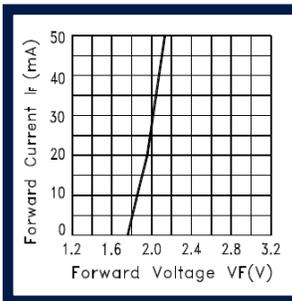
InGaN Blue, Green

RELATIVE INTENSITY V. FORWARD CURRENT



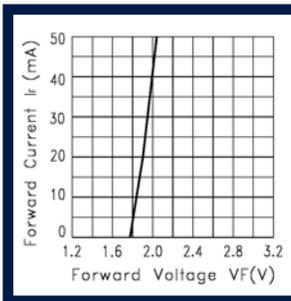
InGaN White

FORWARD CURRENT V. FORWARD VOLTAGE



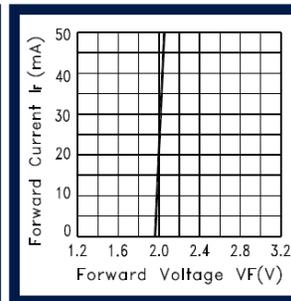
AlInGaP Red

FORWARD CURRENT V. FORWARD VOLTAGE



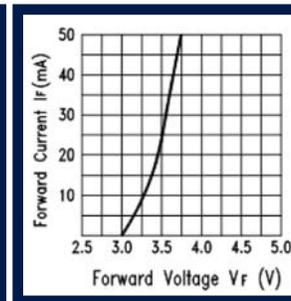
AlInGaP Orange, Yellow

FORWARD CURRENT V. FORWARD VOLTAGE



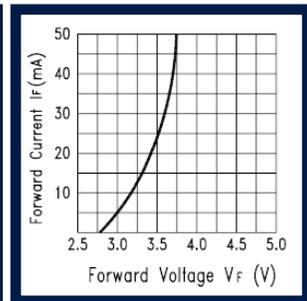
AlInGaP Yellow-Green

FORWARD CURRENT V. FORWARD VOLTAGE



InGaN Blue, Green

FORWARD CURRENT V. FORWARD VOLTAGE



InGaN White

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Tel: (1) 732-919-3119 • Fax: (1) 732-751-5778 • www.dialight.com



MDEF597RM001\_A



# AMEYA360

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Authorized Distribution Brand :



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➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd  
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email [amall@ameya360.com](mailto:amall@ameya360.com)

QQ 800077892

Skype [ameyasales1](#) [ameyasales2](#)

➤ Customer Service :

Email [service@ameya360.com](mailto:service@ameya360.com)

➤ Partnership :

Tel +86 (21) 64016692-8333

Email [mkt@ameya360.com](mailto:mkt@ameya360.com)