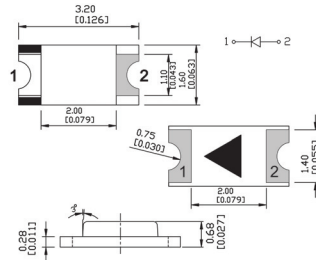


# Dialight

## Micro LED® SMD LED “598 SERIES” 1206 PACKAGE (3.2mm X 1.6mm X 0.7mm) Single Color Water Clear



Package Outline Drawing:



Notes 1. All dimensions are in mm [inches];  
2. Tolerances are  $\pm 0.1\text{mm}$  [0.004inch] unless noted.

### FEATURES / BENEFITS

- ▲ Compatible with automatic placement equipment
- ▲ RoHS compliant
- ▲ Packaged in 8mm tape, 7" reel and 20 per strip
- ▲ Meets EIA-481-1 pkg. std.

### ORDERING INFORMATION

5 9 8 - 8 2 1 0 - 1 0 **7** F

Packaging Option

2 20 pieces on tape

7 7" reel 3000pcs / reel

### PART NUMBERS

| DIALIGHT P/N  | EMITTED COLOR | MATERIAL | LENS COLOR  | LUMINOUS INTENSITY |     |     | DOMINANT WAVELENGTH |     |     | FORWARD VOLTAGE |     |     | VIEWING ANGLE |
|---------------|---------------|----------|-------------|--------------------|-----|-----|---------------------|-----|-----|-----------------|-----|-----|---------------|
|               |               |          |             | If = 20 ma         |     |     | If = 20 ma          |     |     | If = 20 ma      |     |     |               |
|               |               |          |             | MIN                | TYP | MAX | MIN                 | TYP | MAX | MIN             | TYP | MAX |               |
| 598-8210-107F | RED           | AlInGaP  | Water Clear | 30                 | -   | 80  | 630                 | 635 | 640 | 1.7             | 2   | 2.4 | 140           |
| 598-8220-107F | RED-ORANGE    | AlInGaP  | Water Clear | 120                | 150 | 200 | 620                 | 625 | 630 | 1.7             | 2   | 2.4 | 140           |
| 598-8230-107F | ORANGE        | AlInGaP  | Water Clear | 70                 | 110 | 150 | 600                 | -   | 610 | 1.7             | 2   | 2.4 | 140           |
| 598-8240-107F | YELLOW        | AlInGaP  | Water Clear | 100                | 130 | 160 | 590                 | -   | 595 | 1.7             | 2   | 2.4 | 140           |
| 598-8250-107F | YELLOW        | AlInGaP  | Water Clear | 100                | 130 | 160 | 583                 | -   | 590 | 1.7             | 2   | 2.4 | 140           |
| 598-8260-107F | YELLOW-GREEN  | AlInGaP  | Water Clear | 20                 | 40  | 60  | 570                 | -   | 575 | 1.8             | 2   | 2.4 | 140           |
| 598-8270-107F | GREEN         | GaP      | Water Clear | 10                 | 20  | 40  | 562                 | -   | 570 | 1.8             | 2   | 2.4 | 140           |
| 598-8280-107F | GREEN         | InGaP    | Water Clear | 150                | 220 | 300 | 520                 | 523 | 525 | 3               | 3.2 | 3.5 | 140           |
| 598-8281-107F | GREEN         | InGaP    | Water Clear | 220                | 300 | 400 | 520                 | 523 | 525 | 3               | 3.2 | 3.5 | 140           |
| 598-8290-107F | BLUE          | InGaP    | Water Clear | 60                 | 90  | 140 | 470                 | 473 | 475 | 2.8             | 3.2 | 3.5 | 140           |
| 598-8291-107F | BLUE          | InGaP    | Water Clear | 90                 | 140 | 160 | 470                 | 473 | 475 | 2.8             | 3.2 | 3.5 | 140           |

### ABSOLUTE RATINGS (@ Ta = 25°C)

| DIALIGHT P/N  | Power Dissipation | Forward Current | Reverse Voltage | Operating Temperature Range | Storage Temperature Range | Peak Pulse Forward Current | Electrostatic Discharge |
|---------------|-------------------|-----------------|-----------------|-----------------------------|---------------------------|----------------------------|-------------------------|
|               | (mW)              | (mA)            | (V)             | (°C)                        | (°C)                      | (mA)                       | (HBM)                   |
| 598-8210-107F | 60                | 25              | 5               | -30~+85                     | -40~+100                  | 100                        | 2000                    |
| 598-8220-107F | 60                | 25              | 5               | -30~+85                     | -40~+100                  | 100                        | 2000                    |
| 598-8230-107F | 60                | 25              | 5               | -30~+85                     | -40~+100                  | 100                        | 2000                    |
| 598-8240-107F | 60                | 25              | 5               | -30~+85                     | -40~+100                  | 100                        | 2000                    |
| 598-8250-107F | 60                | 25              | 5               | -30~+85                     | -40~+100                  | 100                        | 2000                    |
| 598-8260-107F | 60                | 25              | 5               | -30~+85                     | -40~+100                  | 100                        | 2000                    |
| 598-8270-107F | 60                | 25              | 5               | -30~+85                     | -40~+100                  | 100                        | 2000                    |
| 598-8280-107F | 87.5              | 25              | 5               | -30~+85                     | -40~+100                  | 100                        | 1000                    |
| 598-8281-107F | 87.5              | 25              | 5               | -30~+85                     | -40~+100                  | 100                        | 1000                    |
| 598-8290-107F | 87.5              | 25              | 5               | -30~+85                     | -40~+100                  | 100                        | 1000                    |
| 598-8291-107F | 87.5              | 25              | 5               | -30~+85                     | -40~+100                  | 100                        | 2000                    |

Dialight Corporation

1501 Route 34 South • Farmingdale, NJ 07727 USA

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



A4703



ISO 9001



MDEI5981206WC\_A

**Micro LED® SMD LED**  
**“598 SERIES” 1206 PACKAGE**  
 (3.2mm X 1.6mm X 0.7mm) Single Color Water Clear

## MECHANICAL DIMENSIONS