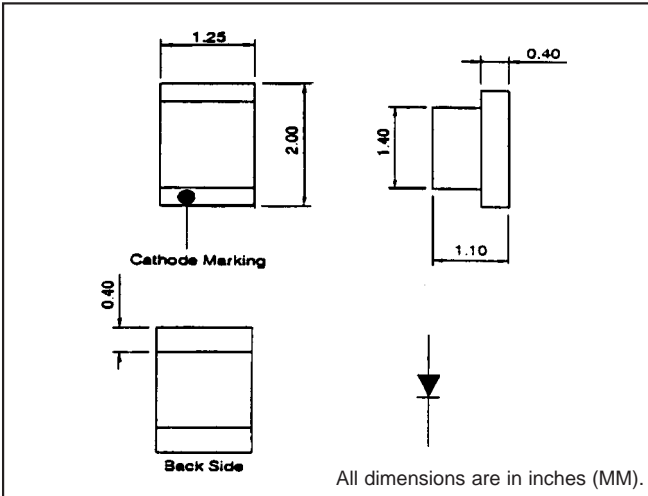


**OLS-176 Series Size 0805 Low Current SMT LEDs**

**DESCRIPTIONS AND FEATURES**



**FEATURES**

- Circuit substrate-glass laminated epoxy
- Size 0805: 2.0 (L) x 1.25 (W) x 1.1 (H) mm
- Soldering pads: gold plated, all soldering methods applicable
- HY, HD (AlInGaP) high luminous intensity types
- Taped in 8 mm-blister tape, cathode marking to Transporting perforation
- All components are sorted into luminous intensity classes

**ELECTRO-OPTICAL CHARACTERISTICS AND RATINGS**

| Part Number | Emitted Color | Luminous Intensity |          |    | Forward Voltage |     |    | Peak Wavelength (nm) |
|-------------|---------------|--------------------|----------|----|-----------------|-----|----|----------------------|
|             |               | Min. mcd           | Typ. mcd | mA | Type.           | Max | mA |                      |
| OLS-176R    | red           | 0.2                | 0.4      | 2  | 1.85            | 2.3 | 2  | 700                  |
| OLS-176SD   | red           | 0.4                | 0.6      | 2  | 1.8             | 2.2 | 2  | 635                  |
| OLS-176SR   | red           | 0.6                | 0.9      | 2  | 1.65            | 2.1 | 2  | 660                  |
| OLS-176UR   | red           | 1.0                | 1.8      | 2  | 1.65            | 2.1 | 2  | 660                  |
| OLS-176G    | green         | 0.4                | 1.2      | 2  | 1.9             | 2.2 | 2  | 570                  |
| OLS-176Y    | yellow        | 0.3                | 0.6      | 2  | 1.8             | 2.2 | 2  | 590                  |
| OLS-176D    | orange        | 0.3                | 0.5      | 2  | 1.8             | 2.2 | 2  | 610                  |
| OLS-176SB   | blue          | 0.4                | 0.8      | 2  | 3.2             | 4.0 | 2  | 430                  |
| OLS-176HY   | high yellow   | 1.6                | 3.0      | 2  | 1.8             | 2.2 | 2  | 590                  |
| OLS-176HD   | high orange   | 1.6                | 3.0      | 2  | 1.8             | 2.2 | 2  | 620                  |
| OLS-176HR   | high red      | 2.5                | 2.8      | 2  | 1.8             | 2.2 | 2  | 644                  |

**ABSOLUTE MAXIMUM RATINGS**

|  |                           |
|--|---------------------------|
| Power Dissipation                                      | .8 mW                     |
| Storage/Operation Temperature                          | -.55 to +85/-40 to +85 °C |
| Lead Solder Time at 235°C                              | .10 Seconds               |
| Peak Forward Current (1 micro second @ 10% duty cycle) | .10 mA                    |
| Reverse Voltage (IR=100µA)                             | .5.0 V                    |
| Forward Current  | .4 mA                     |