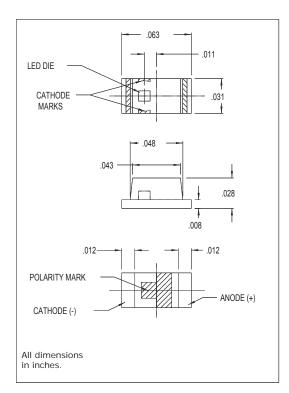


### 7017X Series Surface Mount LEDs 0603 Package Size

# **Description and Features**



#### **Surface Mount Technology**

- Tape and reel packaged for high-speed autoinsertion.
- Convection and vapor-phase reflow compatible.
- Compact form enables high density placement.
- Packaged 4000 pieces per reel.
- RoHS Compliant

### **Leading Edge LED Optoelectronic Performance**

• Consistent high brightness.

#### **Exceptional Reliability**

- Stringent process controls assure quality.
- Extensive qualification testing to meet strictest requirements.
- Designed to permit easy post-reflow solder joint inspection.
- Refer to "Solder Pad Geometry 1.pdf"

## **Electro-Optical Characteristics and Ratings**

| PART NUMBER   | 7017X15     | 7017X1      | 7017X7         | 7017X33     |
|---|-------------|-------------|----------------|-------------|
| Output Color  | Green       | Red         | Y ellow/G reen | Yellow      |
| Diffusion   | Diffused    | Diffused    | Diffused       | Diffused    |
| Package Color   | Clear       | Clear       | Clear          | White       |
| Test Current (mA)                                     | 20          | 20          | 20             | 20          |
| Forward Voltage Typ. (V)                              | 2.1         | 1.7         | 2.1            | 1.9         |
| Forward Voltage Max. (V)                              | 2.8         | 2.3         | 2.8            | 2.4         |
| Luminous Intensity Min. (mcd)                         | 1.4         | 7.0         | 7.0            | 16          |
| Luminous Intensity Typ. (mcd)                         | 2.4         | 11.7        | 11.7           | 65          |
| Luminous Intensity Max. (mcd)                         | -           | -           | -              | -           |
| Peak Wavelength (nm)                                  | 555         | 660         | 570            | 592         |
| Viewing Angle 20 1/2 (degrees)                        | 70          | 70          | 70             | 70          |
| Power Dissipation (mW)                                | 70          | 57.5        | 70             | 81          |
| Operating Temperature (°C)                            | -30 to +85  | -30 to +85  | -30 to +85     | -40 to +85  |
| S torage Temperature (°C)                             | -40 to +100 | -40 to +100 | -40 to +100    | -40 to +100 |
| Peak Forward Current Max. (1µs @ 10% duty cycle) (mA) | 60          | 60          | 60             | 100         |
| Reverse Voltage (IR=100μA) (V)                        | 4           | 4           | 4              | 5           |
| Lead Solder Time @ 260°C                              | 5           | 5           | 5              | 5           |

