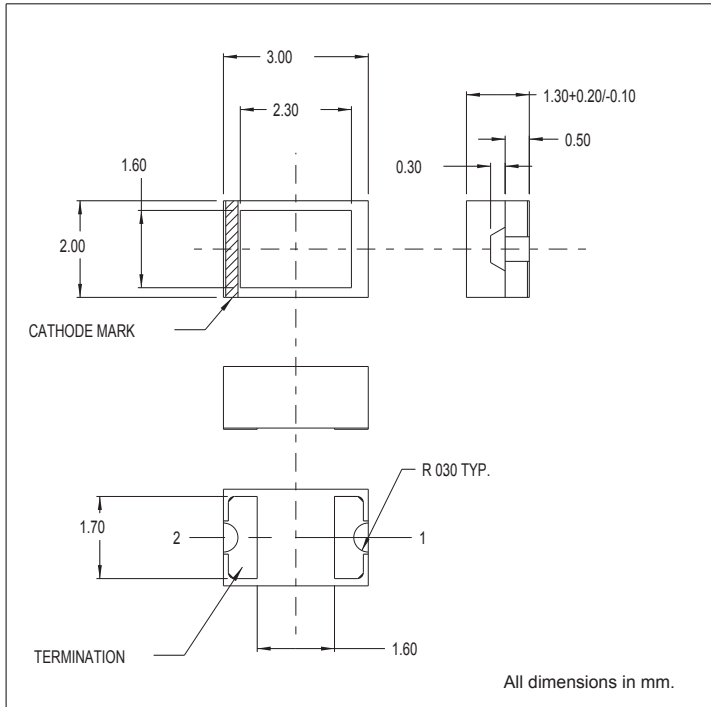


## 7016X Series SMT LEDs 1208 Package Size

### 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 2500 per reel.

#### 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                                           | 7016X13      | 7016X1       | 7016X3       | 7016X5       | 7016X11      |
|-------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|
| Output Color                                          | Amber        | Red          | Yellow       | Green        | Red          |
| Diffusion                                             | Non-Diffused | Non-Diffused | Non-Diffused | Non-Diffused | Non-Diffused |
| Package Color                                         | Clear        | Clear        | Clear        | Clear        | Clear        |
| Test Current (mA)                                     | 20           | 20           | 20           | 20           | 20           |
| Forward Voltage Typ. (V)                              | 2.0          | 2.0          | 2.1          | 2.2          | 1.75         |
| Forward Voltage Max. (V)                              | 2.8          | 2.8          | 2.8          | 2.8          | 2.5          |
| Luminous Intensity Typ. (mcd)                         | 2.2          | 2.2          | 2.2          | 5.6          | 5.6          |
| Luminous Intensity Max. (mcd)                         | 6.3          | 6.3          | 6.3          | 16.0         | 16.0         |
| Luminous Intensity Min. (mcd)                         | 1.7          | 2.2          | 2.1          | 2.2          | 2.1          |
| Peak Wavelength (nm)                                  | 610          | 650          | 585          | 563          | 660          |
| Viewing Angle 2θ 1/2 (degrees)                        | 110          | 110          | 110          | 110          | 110          |
| Power Dissipation (mW)                                | 75           | 75           | 75           | 75           | 75           |
| Operating Temperature (°C)                            | -25 to +80   | -25 to +80   | -25 to +80   | -25 to +80   | -25 to +80   |
| Storage Temperature (°C)                              | -30 to +85   | -30 to +85   | -30 to +85   | -30 to +85   | -30 to +85   |
| Peak Forward Current Max. (1μs @ 10% duty cycle) (mA) | 75           | 75           | 75           | 75           | 75           |