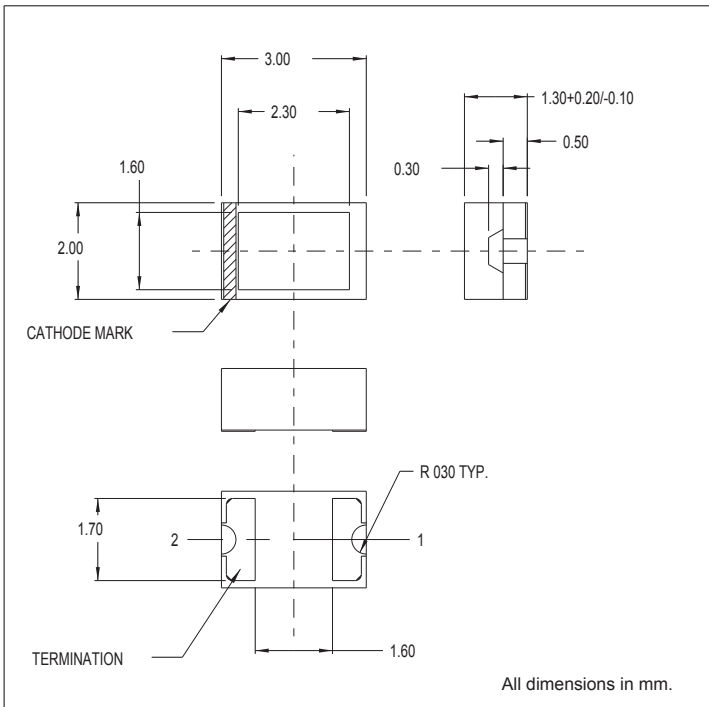


7016X Series SMT LEDs 1208 Package Size

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 |