



**Product Group:** Vishay Semiconductors, Opto

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The information below is also available in PDF format which can be read in Adobe® Acrobat® by clicking on this link:  
[http://www.vishay.com/marcom/hn/npi/npi\\_tlmx2000.pdf](http://www.vishay.com/marcom/hn/npi/npi_tlmx2000.pdf)

To access the product datasheets on the Vishay Web site, go to:

<http://www.vishay.com/doc?83185> (TLMx2000)

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## Low Current MiniLED SMD LED Series

### A new Product Line TLMx20xx MiniLED Series Available in red, orange and yellow as low current Version

The TLMx20.. is the continuation for the MiniLED TLMx23.. Product Line

#### The News:

The new MiniLED have been designed in a small white SMT Package, to meet the increasing demand for AllnGaP based low current SMD LEDs. The feature of the device is the very small package 2.3mm x 1.3mm x 1.4mm. The package of the TLMx200x consists of a lead frame base, embedded in a clear epoxy.



Product	Color	Iv / mcd @ IF = 2mA (typ.)	Dominant Wavelength/nm IF = 2mA (typ.)	Angle of Half Intensity
TLMS2000	Super red	4.5	630	60°
TLMO2000	Orange	9.0	605	60°
TLMY2000	Yellow	7.1	588	60°

#### Features:

- SMD LED with exceptional brightness
- Compatible with automatic placement equipment
- Available in 8mm tape reel
- Low profile package
- High reliability lead frame based
- Temperature Range -40°C to +100°C
- Luminous intensity ratio in one packaging unit  $I_{Vmax} / I_{Vmin} < 2.0$
- ESD class 1
- Very low power consumption
- Suitable for all soldering methods according to CECC
- High efficient AllnGaP technology

#### The Key Applications:

- Backlight keypads
- Indicator and backlight for audio and video equipment
- Indicator and backlight for battery driven equipment
- Indicator and backlight in office equipment
- Flat backlight for LCDs, switches and symbols
- Consumer appliances
- Medical instruments
- Illumination purpose, alternative to incandescent lamp

**Availability:**

**- Samples: Available,**

**- Production Quantities: Q1 / 2005**

**Lead times: 8 Weeks**

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