



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_tlmx10xx.pdf

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

<http://www.vishay.com/doc?83172> (TLMx10xx)

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Low current 0603 LED - A new Product Line

The smallest SMD LED available in red, orange and yellow as low current Version

The News:

These new devices have been designed in low current Version to meet the increasing demand for AlInGaP based ultra-miniature size SMD LEDs. With dimensions of only 1.6mm (L) x 0.8mm (W) x 0.6mm (H), Vishays new 0603 LED series are compatible with the industry standard 0603 footprint. The package of the TLMx100x 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
TLMS1000	Super red	4	628	80°
TLMO1000	Orange	7,5	605	80°
TLMY1000	Yellow	7,5	588	80°

Features:

- SMD LED with exceptional brightness
- Compatible with automatic placement equipment
- Reflow soldering, designed also for lead free solder process
- Available in 8 mm tape
- Low profile package
- High reliability lead frame based
- Temperature Range -40°C to +100°C
- Very low power consumption
- Luminous intensity ratio in one packaging unit $I_{Vmax} / I_{Vmin} < 1.6$
- ESD withstand voltage up to 1 KV

The Key Applications:

- Backlight keypads
- Thinner mobile phones
- 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

Availability:

- Samples: Q4 / 2004,

- Production Quantities: Q4 / 2004

Lead times: 6 Weeks

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