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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\\_temt6000.pdf](http://www.vishay.com/marcom/hn/npi/npi_temt6000.pdf)  
To access the product datasheets on the Vishay Web site, go to:  
<http://www.vishay.com/doc?81579>(TEMT6000)

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## New Ambient Light Sensor

### The News:

The TEMT6000 is a silicon NPN planar phototransistor in a miniature transparent epoxy resin. It is constructed using a clear epoxy mold over PCB. One of the main benefits of the TEMT6000 is that it is a miniature surface mountable device. It can be used to sense ambient light in applications ranging from consumer to automotive.



### Features:

- Lead-free component, RoHS compliant
- SMD style package on PCB mold technology
- Wide angle of half sensitivity  $\phi = \pm 60^\circ$
- Suitable for IR reflow soldering
- Peak sensitivity is 570 nm
- IR spectrum suppressed

### The Key Applications:

#### Daylight sensor for backlight dimming in:

- Mobile phones
- Notebook Computers
- PDA's
- Cameras
- Video Cameras
- Dashboards
- Televisions

### The Perspective:

The TEMT6000 is a low cost, miniature, SMD device. The TEMT6000 can be used in a wide range of ambient light sensing applications, and target markets include Liquid Crystal Displays/TVs. It's low cost and miniature footprint allows the designer space-savings in their application.

### Key Benefits:

- High sensitivity for visible light
- Low IR disturbance of light measurement

Availability:

**TEMT6000 :**

- Engineering Samples available,
- Production Quantities August 2004

Lead times: 6 to 8 Weeks

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