



Product Group: Vishay Semiconductors, Opto

Sept. 17, 2004

Author:Karl Schoppe

Tel: +49 7131 672621

E-mail: karl.schoppe@vishay.com

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_tcnd5000.pdf

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

<http://www.vishay.com/doc?83795>(TCND5000)

If you would like to be removed from or add someone to our email distribution list for New Product Info announcements, do not reply to this email. Instead, please contact: marcom@vishay.com

Reflective Sensor TCND5000

The News:

Vishay Sensor & IRDC Division introduces a new surface mount, reflective sensor designed to detect objects at an operating distance of 30mm. The large operating distance makes this sensor very attractive for use in many industrial, consumer and automotive applications. This device is also well suited for proximity sensing applications, including mobile phones equipped with speakerphone function, where the sensor serves to detect when the phone is placed close to the user's ear, triggering a reduction in volume control.



Features:

- SMD style package
- Operating distance 30mm
- High sensitivity
- Low crosstalk – reduced by the inclusion of a optical barrier between emitter/detector pair
- IR bandpass filter 950nm – eliminating daylight interferences
- IR Emitter operating wavelength 950 nm
- Low aging rate: Detail information see Technical Information 'AGING OF INFRARED EMITTER COMPONENTS' <http://www.vishay.com/doc?81117>
- pb-free component
- Component in accordance to RoHS 2002/95/EC and WEE 2002/96/EC

The Key Applications:

- Object presence sensor
- Touch key sensor
- Proximity sensor

The Perspective:

Designed and based on the concepts of our successful TCRT5000 leaded device, the TCND5000 is expected to have great success in the fast growing market of SMT devices. The TCND5000 is usable in Pb-free reflow solder process with peak temperature of to 260 O C.

Key Benefits:

- Long focal distance
- High intensity
- High sensitivity
- Small beam angle

Availability:

- Samples: Q3 / 2004,
- Production Quantities Q4 / 2004

Lead times: 12 Weeks

Contact Information:

The Americas

Dale Henderson
+1 408 567-8317

dale.henderson@vishay.com

Europe

Klaus Baumann
+49 7131-67-2212

klaus.baumann@vishay.com

Asia/Pacific

Werner Kreile
+65 6780-7812

werner.kreile@vishay.com

[Vishay Home](#) | [Company Info](#) : [Press](#) | [Investors](#) | [Contacts](#) | [More...](#)
