



Product Group: Vishay Semiconductors, Sensors
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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_temd5xx0.pdf
 To access the product datasheets on the Vishay Web site, go to:
<http://www.vishay.com/doc?84679> (TEMD5010)
<http://www.vishay.com/doc?84685> (TEMD5020)
<http://www.vishay.com/doc?84658> (TEMD5110)
<http://www.vishay.com/doc?84680> (TEMD5120)

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TEMD 5010
TEMD 5020
TEMD 5110
TEMD 5120
-- High Performance PIN Photodiodes in New SMT Package--



The News:

Adding to our already successful TEMD5xxx line, this new series of PIN photodiodes combines high-speed response and best-in-class sensitivity in a new miniature, surface mount package. With additional features like a wide viewing angle, optional daylight filtering, and two available die sizes, these PIN photodiodes will easily win a good position in a broad range of application in the industrial, automotive, and medical markets..

Product	Option	
	IR Filter	Sensitive Area
TEMD5010	no	7.5 mm ²
TEMD5020	no	5.7 mm ²
TEMD5110	yes	7.5 mm ²
TEMD5120	yes	5.7 mm ²

Features:

- TEMD50xx is ideal for detecting visible light – sensitive from 400 nm to 1100 nm
- TEMD51xx has an integrated daylight filter making it suitable for detecting infrared light – peak sensitivity at 850 nm
- Extremely fast response times – 100 ns typical
- Wide angle of sensitivity – ϕ 50% = +/- 65°
- Best-in-class sensitivity due to large die area – TEMD5x10 is 7.5 mm² and TEMD5x20 is 5.7 mm²
- Lead-free – components are in accordance to ELV 2000/53/EC, RoHS 2002/95/EC and WEEE 2002/96/EC
- Small size – 5.0 mm x 4.24 mm x 1.12 mm
- Surface mount package
- Manufactured in-house – providing short lead times and quick response

The Key Applications:

- High-speed data transfer
- Light barrier
- Alarm system
- Linear light measurement
- Glucose meter
- Rain Light Tunnel Sensor
- Smoke Detector
- Road Cash systems

The Key Benefits:

- Thin SMD device
- Sensitivity options
- Filter options
- Lead-free reflow solder

Availability of TEMD5010, TEMD5020, TEMD5110, TEMD5120:

- Engineering Samples: March 2005,

- Production Quantities: June 2005

Lead times: 6 to 8 Weeks

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