



## **Miniature photocoupler combines high switching speed with 3.3V low power operation**

**Device provides 3.75kV isolation and suits high speed logic systems and factory automation interfaces**

Toshiba Electronics Europe (TEE) has expanded its family of miniature photocouplers with a new device that combines very high switching speeds with very low power operation.

The TLP2066 photocoupler is ideal for applications requiring a combination of isolation, high speed data transfer and low power operation. Target applications will include logic systems in plasma panel displays (PDPs) and other digital home appliances, and high speed interfaces in modern factory automation systems.

Toshiba's new photocoupler integrates a GaAlAs infrared LED and a high-gain, high-speed photodetector within a surface mount MFSOP6 package that measures just 4.4mm x 3.6mm x 2.5mm. Maximum propagation delay is just 60ns, leading to typical switching speeds of 20MHz.

Operating with a nominal power supply voltage of 3.3V, the TLP2066 has a maximum current consumption of just 5mA. The photocoupler is configured in an inverter logic (totem-pole output) format and provides an isolation voltage rated at 3750V<sub>rms</sub>. An internal shield ensures a high common mode transient immunity of 15kV/μs (min).

Designed to comply with all international safety approvals, the TLP2066 offers guaranteed performance at temperatures ranging from -40°C to 100°C.

## **About Toshiba**

Toshiba Corporation is a leader in information and communications systems, electronic components, consumer products and power systems. The company's integration of these wide-ranging capabilities assures its position as an innovator in advanced components, products and systems. Toshiba has more than 172,000 employees worldwide and annual sales of over US\$54 billion (FY2005).

Toshiba Electronics Europe (TEE) is the European Headquarters for the electronic components business of Toshiba Corporation, which is the world's fourth largest semiconductor vendor according to estimates by Dataquest.

Providing design, manufacturing, marketing and sales, TEE was formed in 1973 in Neuss, Germany. The company now has headquarters in Düsseldorf, Germany and subsidiaries in France, Italy, Spain, Sweden and the United Kingdom. Company president is Mr Shikama and the total number of personnel in Europe is around 400.

Toshiba Electronics Europe offers one of the industry's broadest IC and discrete product lines including high-end memory, microcontrollers, ASICs, ASSPs and display products for automotive, multimedia, consumer, telecoms and networking applications. The company also has a wide range of power semiconductor solutions.

For more company information visit Toshiba's web site at [www.toshiba-components.com](http://www.toshiba-components.com)

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