TOSHIBA Photocoupler GaAs IRed & Photo-Transistor

## TLP421F

Office Equipment

Household Appliances

Solid State Relays

**Switching Power Supplies** 

Various Controllers

Signal Transmission Between Different Voltage Circuits

The TOSHIBA TLP421F consists of a silicone photo–transistor optically coupled to a gallium arsenide infrared emitting diode in a four lead plastic DIP (DIP4) with having high isolation voltage (AC: 5kV<sub>RMS</sub> (min)).

Absolute maximum ratings and electrical characteristics are the same as TLP421 technical datasheet.

• Collector-emitter voltage: 80V (min)

• Current transfer ratio: 50% (min)

Rank GB: 100% (min)

• Isolation voltage: 5000 V<sub>rms</sub> (min)

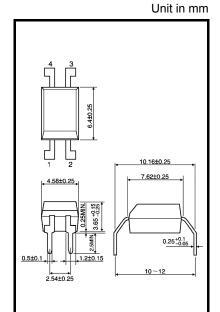
• UL recognized: UL1577

• BSI approved: BS EN60065: 2002

Approved no. 8411 BS EN60950-1: 2002 Approved no. 8412

• SEMKO approved: EN60065, EN60950, EN60335

Approved no. 9910249 / 01

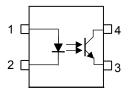


11-5B202

Weight: 0.26 g

**TOSHIBA** 

# Pin Configurations (top view)



1: ANODE

2: CATHODE

3: EMITTER

4 : COLLECTOR

• Option (D4) type

TUV approved: DIN EN 60747-5-2

Approved no. 40010944

Maximum operating insulation voltage:  $1130 V_{PK}$  Maximum permissible over voltage:  $8000 V_{PK}$ 

(Note): When an EN 60747-5-2 approved type is needed, please designate the " Option (D4) "

Making VDE application: DIN EN 60747-5-2

• Construction mechanical rating

	10.16mm pitch TLP421F type
Creepage distance	8.0 mm (min)
Clearance	8.0 mm (min)
Insulation thickness	0.4 mm (min)

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### **RESTRICTIONS ON PRODUCT USE**

20070701-EN

- The information contained herein is subject to change without notice.
- TOSHIBA is continually working to improve the quality and reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to comply with the standards of safety in making a safe design for the entire system, and to avoid situations in which a malfunction or failure of such TOSHIBA products could cause loss of human life, bodily injury or damage to property.
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  TOSHIBA or the third parties.
- GaAs(Gallium Arsenide) is used in this product. The dust or vapor is harmful to the human body. Do not break, cut, crush or dissolve chemically.
- Please contact your sales representative for product-by-product details in this document regarding RoHS
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- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001:
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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