Unit in mm

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)).

Maximum rating 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: 1994

Approved no. 8411 BS EN60950: 1992 Approved no. 8412

• SEMKO approved: EN60065, EN60950, EN60335

Approved no. 9910249 / 01

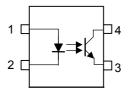
4 3 1 2 10.16±0.25 4.58±0.25 1 2 10.16±0.25 7.62±0.25

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 VDE0884

Approved no. R9950202

Maximum operating insulation voltage: 1130V<sub>PK</sub>
Maximum permissible over voltage: 8000V<sub>PK</sub>

(Note): When a VDE0884 approved type is needed, please designate the "Option (D4) "

Making VDE application: DIN VDE0884

• Construction mehanical rating

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

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## RESTRICTIONS ON PRODUCT USE

000707EBC

- 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. In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent TOSHIBA products specifications. Also, please keep in mind the precautions and conditions set forth in the "Handling Guide for Semiconductor Devices," or "TOSHIBA Semiconductor Reliability Handbook" etc..
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