

TOSHIBA Photocoupler GaAlAs Ired + Photo IC

# TLP751F

Digital Logic Ground Isolation

Line Receivers

Microprocessor System Interfaces

Switching Power Supply Feedback Control

Analog Signal Isolation

The TOSHIBA TLP751F consists of a high-output GaAlAs light emitting diode optically coupled to a high-speed photodiode with a transistor amplifier and is housed in an 8-pin DIP.

The TLP751F has internal base connection, and with offering this base pin the TLP751 is suitable for analog applications and enable operation. If the base pin is left open, an output signal will be susceptible to external noise. In this case, the TLP750F is recommended.

All parameters are the same as those of the TLP751 and listed in its datasheet.

- Switching speed:  $t_{pHL} = 0.2 \mu s$  (typ.)  
 $t_{pLH} = 1.0 \mu s$  (typ.) ( $R_L = 4.1 \text{ k}\Omega$ )

- TTL compatible

- UL recognized: UL1577, file no. E67349

- BSI approved: BS EN60065: 2002,

Certificate no. 8869

BS EN60950-1: 2002,

Certificate no. 8870

- Isolation voltage: 5000 Vrms (min)

- Option(D4)type

VDE approved: DIN EN 60747-5-2,

Certificate no. 40009302

Maximum operating insulation voltage: 1140 V<sub>pk</sub>

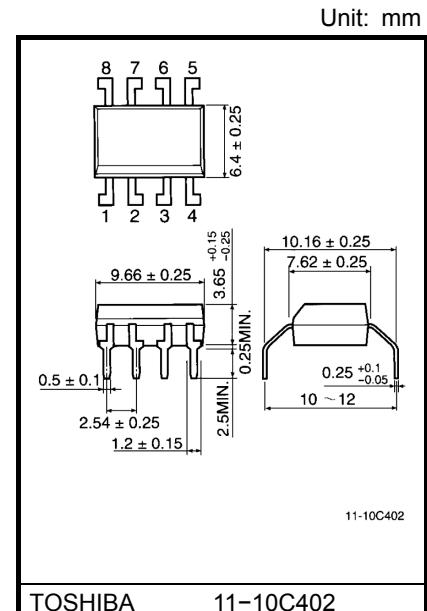
Maximum permissible overvoltage: 8000 V<sub>pk</sub>

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

- Creepage distance: 8.0 mm (min)

Clearance: 8.0 mm (min)

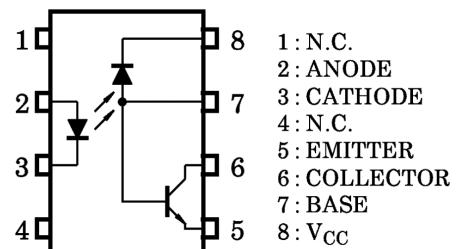
Insulation thickness: 0.4 mm (min)



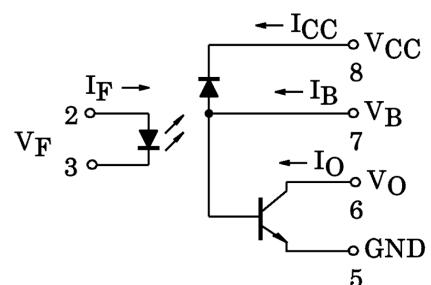
TOSHIBA 11-10C402

Weight: 0.54g (typ.)

## Pin Configuration (top view)



## Schematic



Start of commercial production  
1987/09

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