

TLP750F

- Digital Logic Ground Isolation
- Line Receivers
- Microprocessor System Interfaces
- Switching Power Supply Feedback Control
- Analog Signal Isolation

The TOSHIBA TLP750F 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 TLP750F has no internal base connection and features noise immunity, thus it is suitable for inverter drivers for variable-speed motor drives.

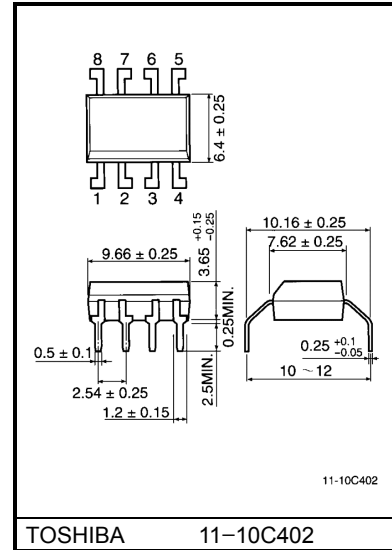
All parameters are the same as those of the TLP750 and listed in its datasheet.

- Switching speed: $t_{pHL} = 0.3 \mu s$ (typ.)
 - Switching speed: $t_{pLH} = 0.5 \mu s$ (typ.) ($R_L = 1.9 k\Omega$)
 - UL recognized: UL1577, file No. E67349
 - BSI approved: BS EN60065: 2002, Certificate No.8869
BS EN60950-1: 2002, Certificate No.8870
 - Isolation voltage: $5000V_{rms}$ (min)
 - Option(D4)type
VDE approved: DIN EN 60747-5-2, Certificate No. 40009302
- Maximum operating insulation voltage: $1140 V_{PK}$
Maximum permissible overvoltage: $8000 V_{PK}$

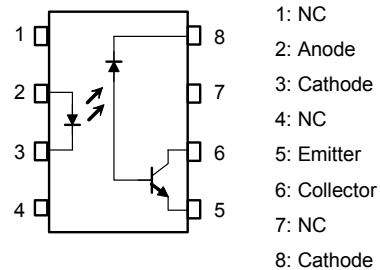
(Note) When a EN 60747-5-2 approved type is needed, please designate the "Option(D4)"

- Creepage distance: 8.0 mm (min)
- Clearance: 8.0 mm (min)
- Insulation thickness: 0.4 mm (min)

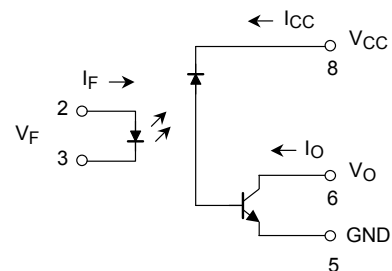
Unit: mm



Pin Configuration (top view)



Schematic



RESTRICTIONS ON PRODUCT USE

20070701-EN GENERAL

- 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.
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.
- The TOSHIBA products listed in this document are intended for usage in general electronics applications (computer, personal equipment, office equipment, measuring equipment, industrial robotics, domestic appliances, etc.). These TOSHIBA products are neither intended nor warranted for usage in equipment that requires extraordinarily high quality and/or reliability or a malfunction or failure of which may cause loss of human life or bodily injury ("Unintended Usage"). Unintended Usage include atomic energy control instruments, airplane or spaceship instruments, transportation instruments, traffic signal instruments, combustion control instruments, medical instruments, all types of safety devices, etc.. Unintended Usage of TOSHIBA products listed in this document shall be made at the customer's own risk.
- The products described in this document shall not be used or embedded to any downstream products of which manufacture, use and/or sale are prohibited under any applicable laws and regulations.
- 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 compatibility. Please use these products in this document in compliance with all applicable laws and regulations that regulate the inclusion or use of controlled substances. Toshiba assumes no liability for damage or losses occurring as a result of noncompliance with applicable laws and regulations.