

TLP702F

TOSHIBA PHOTOCOUPLER GaAlAs IRED & PHOTO-IC

TLP702F

Intelligent power module signal isolation Industrial inverters Motor drive

The Toshiba TLP702F consists of a GaAłAs light-emitting diode and an integrated high-gain, high-speed photodetector. The TLP702F is suitable for isolating input control signals to intelligent power modules. This unit is a 6-pin SDIP. The TLP702F is 50% smaller than the 8-PIN DIP and meets the reinforced insulation class requirements of international safety standards. Therefore the mounting area can be reduced in equipment requiring safety standard certification.

The detector has a totem pole output stage to provide both source and sink driving. The detector IC has an internal shield that provides a guaranteed common-mode transient immunity of 10 kV/µs.

The TLP702F is inverter logic type. For buffer logic type, the TLP706F is in line-up.

Absolute Maxmum ratings and electrical characteristics are the same as The TLP702 technical data sheets.

- Inverter logic type (totem pole output)
- Lead(Pb)-Free
- Guaranteed performance over temperature : -40~100°C
- Power supply voltage : 4.5~20 V
- Input current: IFHL = 5 mA (max.)
- Switching time (tpHL / tpLH): 600 ns (max.)
- Common-mode transient immunity : ±10 kV/µs (min)
- Isolation voltage : 5000 Vrms (min)
- UL Recognized :UL1577, File No.E67349
- Option (D4)

TÜV Approved : DIN EN60747-5-2 No.R50033433

Maximum Operating Insulation Voltage : 1140V_{PK}

Highest Permissible Over Voltage : 8000V_{PK}

(Note) : When a EN60747-5-2 approved type is needed,

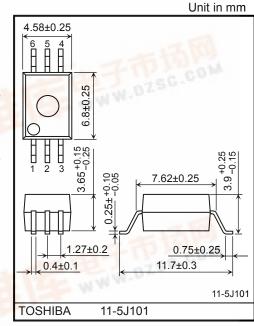
Please designate "Option(D4)"

Construction Mechanical Rating

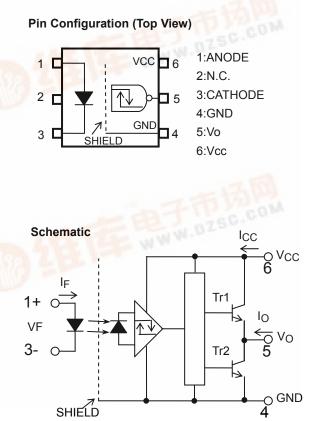
8.0 mm (min)
8.0 mm (min)
0.4 mm (min)

Truth Table

Input	LED	Tr1	Tr2	Output
Н	ON	OFF	ON	L
PDE	OFF	ON	OFF	Н



Weight:0.26 g (typ.)



0.1 μ F bypass capacitor must be connected between pins 6 and 4. (Note 4)

TOSHIBA

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20070701-EN

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