

TLP250F

Transistor Inverter
Inverter for Air Conditionor
IGBT Gate Drive
Power MOSFET Gate Drive

The TOSHIBA TLP250F consists of a GaAlAs light emitting diode and an integrated photodetector.

This unit is 8-lead DIP.

TLP250F is suitable for gate driving circuit of IGBT or power MOSFET.

- Input threshold current: $I_F = 5\text{mA}$ (max.)
 - Supply current: 11mA (max.)
 - Supply voltage: 10 to 35V
 - Output current: $\pm 1.5\text{A}$ (max.)
 - Switching time: $t_{pHL}, t_{pLH} = 0.5\mu\text{s}$ (max.)
 - Isolation voltage: $2500\text{ V}_{\text{rms}}$ (min.)
 - UL recognized: UL1577, file no. E67349
 - cUL approved :CSA Component Acceptance Service
No. 5A, File No.E67349
 - Option (D4) type
- VDE approved: DIN EN 60747-5-5, certificate No. 40011913
- Maximum operating insulation voltage: 1140V_{PK}
- Highest permissible over voltage: 6000V_{PK}

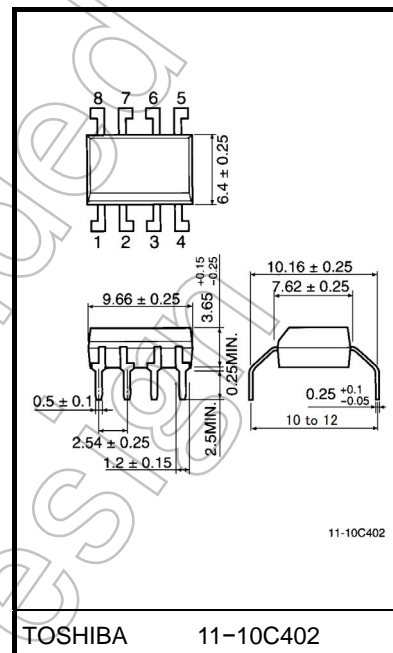
**(Note 1) When a EN 60747-5-5 approved type is needed,
please designate the “ Option (D4) ”**

- Structural parameter
Creepage distance: 8.0mm (min.)
Clearance: 8.0mm (min.)

Truth Table

		Tr1	Tr2
Input LED	On	On	Off
	Off	Off	On

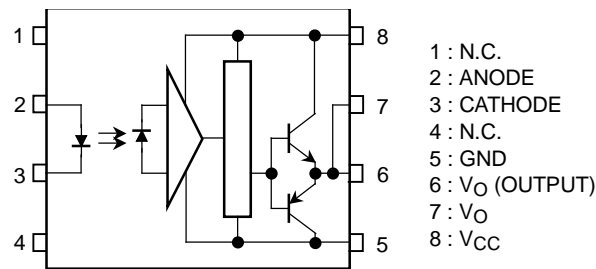
Unit: mm



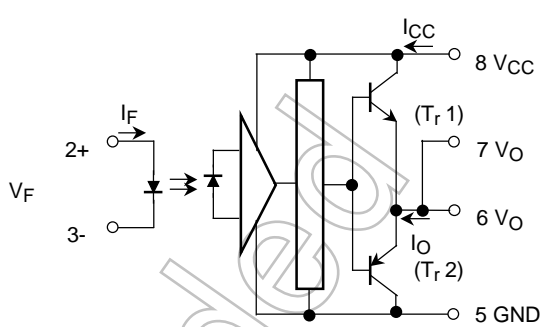
Weight: 0.54 g (typ.)

Start of commercial production
1990/11

Pin Configuration (top view)



Schematic



(Note 2) A 0.1 μ F bypass capacitor must be connected between pin 8 and 5.

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