

TOSHIBA Photocoupler GaAlAs IRED + Photo IC

TLP350F

Industrial Inverter
 Inverter for Air Conditioner
 IGBT/Power MOSFET Gate Drive
 IH(Induction Heating)

The TOSHIBA TLP350F consists of a GaAlAs light-emitting diode and an integrated photodetector.

This unit is an 8-lead DIP package.

The TLP350F is suitable for gate driving IGBTs or power MOSFETs.

Absolute maximum ratings and electrical characteristics are the same as TLP350 technical datasheet.

- Peak output current: $I_O = \pm 2.5A$ (max)
- Guaranteed performance over temperature: -40 to $100^\circ C$
- Supply current: $I_{CC} = 2$ mA (max)
- Power supply voltage: $V_{CC} = 15$ to 30 V
- Threshold input current : $I_{FLH} = 5$ mA (max)
- Switching time (t_{pLH}/t_{pHL}) : 500 ns (max)
- Common mode transient immunity: 15 kV/ μs
- Isolation voltage: 3750 Vrms
- UL Recognized : UL1577, File No. E67349
- Option(D4)

VDE Approved : DIN EN 60747-5-2

Maximum Operating Insulation Voltage : 1140V_{PK}

Highest Permissible Over Voltage : 6000V_{PK}

(Note): When an EN60747-5-2 approved type is needed, Please designate "Option(D4)"

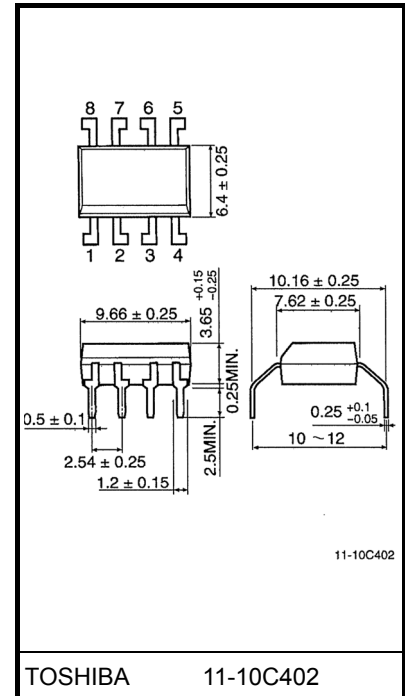
- Construction mechanical rating

	7.62mm pitch TLP350 type	10.16mm pitch TLP350F type
Creepage distance	6.4 mm (min)	8.0 mm (min)
Clearance	6.4 mm (min)	8.0 mm (min)
Insulation thickness	0.4 mm (min)	0.4 mm (min)

Truth Table

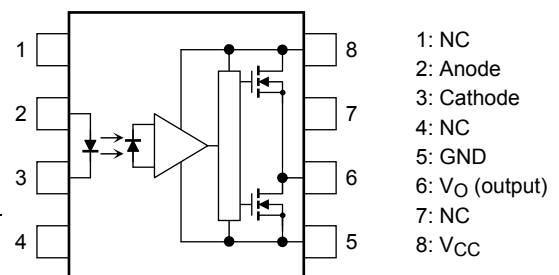
Input	LED	Tr1	Tr2	Output
H	ON	ON	OFF	H
L	OFF	OFF	ON	L

Unit: mm

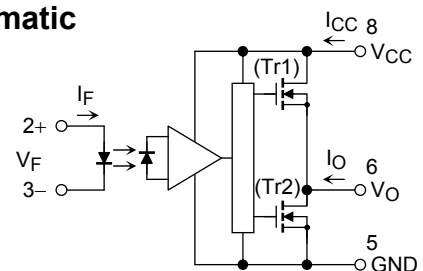


Weight: 0.54 g (typ.)

Pin Configuration (top view)



Schematic



A 0.1 μF bypass capacitor must be connected between pins 8 and 5. (See Note 6)

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20070701-EN

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