

TENTATIVE

TOSHIBA Photocoupler GaAlAs Ired + Photo IC

TLP759F(IGM)

Transistor Invertor

Inverter For Air Conditioner

Line Receiver

IpM Interfaces

The TOSHIBA TLP759F(IGM) consists of a GaAlAs high-output light emitting diode and a high speed detector of one chip photo diode-transistor.

This unit is 8-lead DIP package.

TLP759F(IGM) has no internal base connection, and a Faraday shield integrated on the photodetector chip provides an effective common mode noise transient immunity.

TLP759F(IGM) guarantees minimum and maximum of propagation delay time, switching time dispersion, and high common mode transient immunity. Therefor TLP759F(IGM) is suitable for isolation interface between IPM (Intelligent Power Module) and control IC circuits in motor control application.

All parameters are tested to the specification of TLP759(IGM)

- Isolation voltage: 5000 V_{rms}(min.)
- Common mode transient immunity: ±10kV / μs(min.)
@V_{CM} = 1500V
- Switching time: t_{pHL}, t_{pLH} = 0.1μs(min.)
= 0.8μs(max.)
@I_F = 10mA, V_{CC} = 15V, R_L = 20kΩ, T_A = 25°C
- Switching time dispersion: |t_{pHL}-t_{pHL}| = 0.7μs (max.)
- UL recognized: UL1577, fle No. E67349
- Option (D4) type VDE approved: DIN VDE0884 / 06.92,
Certificate No.83676

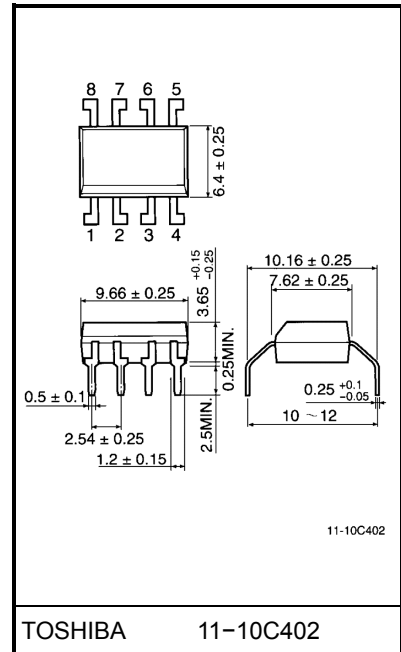
Maximum operating insulation: 1140V_{PK}

Highest permissible over voltage: 6000V_{PK}

(Note 1) When a VDE0884 approved type is needed, please designate the “ Option (D4) ”

- Creepage distance: 8.0mm
- Clearance: 8.0mm
- Insulation thickness: 0.4mm

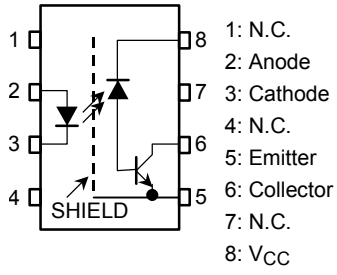
Unit in mm



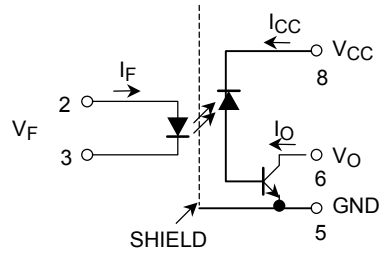
TOSHIBA 11-10C402

Weight: 0.54 g

Pin Configuration (Top view)



Schematic



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