TOSHIBA PHOTOCOUPLER GaAlAs IRED + PHOTO-IC

TLP719F

Digital logic ground isolation

Line receivers

Microprocessor system interfaces

Switching power supply feedback control

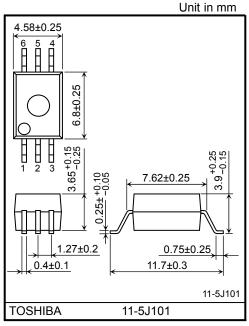
Transistor invertors

The TOSHIBA TLP719F consists of a GaAlAs high-output light-emitting diode and a high-speed detector.

This unit is a 6-lead SDIP. The TLP719F 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 TLP719F has a Faraday shield integrated on the photodetector chip to provide an effective common mode noise transient immunity. Therefore this product is suitable for application in noisy environmental conditions.

Absolute maximum ratings and electrical characteristics are the same as the TLP719 technical data sheets.



Weight: 0.26 g (typ.)

Open collector

Package type : SDIP6

Isolation voltage : 5000 Vrms (min)

Common mode transient immunity : ±10 kV/us(min) @V_{CM} = 400 V

Switching speed : $t_{pHL}/t_{pLH} = 0.8 \mu s \text{ (max)}$ @ $I_F = 16 \text{ mA}$, V_{CC}

 $\mathcal{Q}_{1F} = 16 \text{ IIIA}, \text{ V}_{CC}$ $R_1 = 1.9 \text{ k}\Omega$, Ta = 25 °C

TTL compatible

· Construction mechanical rating

Creepage Distance	8.0 mm (min)
Clearance	8.0 mm (min)
Insulation Thickness	0.4 mm (min)

UL recognized : UL1577, File No. E67349

Option (D4)

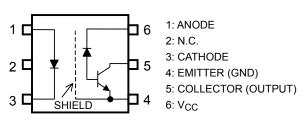
TÜV approved : EN60747-5-2

Certificate No. R50033433

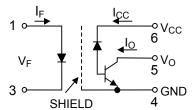
Maximum operating insulation voltage : 1140 Vpk Highest permissible over voltage : 8000 Vpk

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

Pin Configuration (top view)



Schematic



A 0.1-µF bypass capacitor must be connected between pins 4 and 6. (See Note 7.)

RESTRICTIONS ON PRODUCT USE

20070701-EN

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2