

TOSHIBA Photocoupler GaAlAs IRED & Photo-IC

# TLP716F

**Plasma display panel**  
**High Speed Interface**  
**Factory Automation**

The TOSHIBA TLP716F consists of a GaAlAs light emitting diode and a high speed photodetector. This unit is 6-lead SDIP. TLP716F is 50% smaller than 8PIN DIP and has suited the safety standard reinforced insulation class. So, mounting area in safety standard required equipment can be reduced.

Absolute maximum ratings and electrical characteristics are the same as the TLP716 technical data sheets.

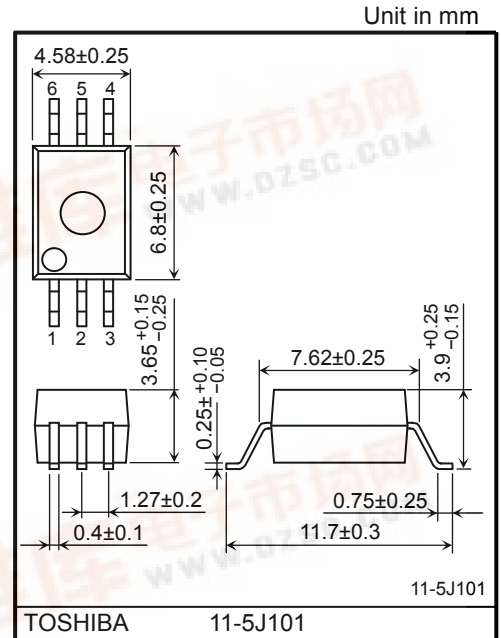
- Inverter Logic (totem pole output)
- Package Type : SDIP6
- Guaranteed Performance Over Temperature : -40~100°C
- Power Supply Voltage : 4.5~5.5 V
- Input Thresholds Current : IFHL=6.5 mA(max.)
- Propagation delay Time (tpHL/ tpLH) : 75 ns(max.)
- Switching speed : 15 MBd(typ.) (NRZ)
- Common mode transient immunity : 10 kV/us(min.)
- Isolation voltage : 5000 Vrms(min.)
- UL Recognized :UL1577, File No.E67349
- Option (D4)  
TÜV Approved : EN60747-5-2  
Maximum Operating Insulation Voltage : 1140 V<sub>PK</sub>  
Highest Permissible Over Voltage : 8000 V<sub>PK</sub>  
**(Note): When an EN60747-5-2 approved type is needed, Please designate "Option(D4)"**

● Construction Mechanical Rating

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

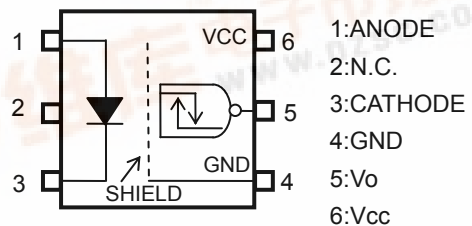
**Truth Table**

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

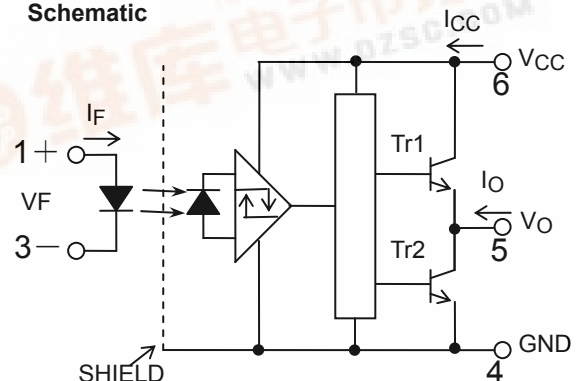


Weight: 0.26 g (typ.)

**Pin Configuration (Top View)**



**Schematic**



0.1 μF bypass capacitor must be connected between pins 6 and 4.



**RESTRICTIONS ON PRODUCT USE**

20070701-EN

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