

## TLP3031F(S), TLP3032F(S), TLP3033F(S)

Office Machine

Household Use Equipment

Triac Driver

Solid State Relay

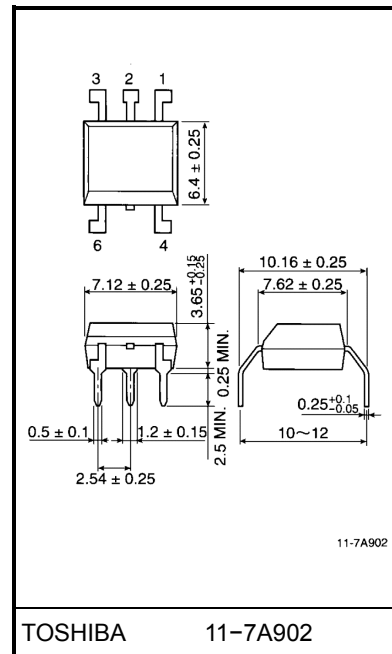
Unit in mm

The TOSHIBA TLP3031F (S), TLP3032F (S) and TLP3033F (S) consist of a photo-triac optically coupled to a gallium arsenide infrared emitting diode in a six lead plastic DIP.

All parameters are tested to the specification of TLP3031(S), TLP3032F(S), TLP3033F(S).  
(both condition and limits)

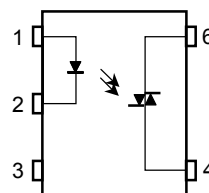
- Peak off-state voltage: 250 V (min)
- Trigger LED current: 15 mA (max) (TLP3031F (S))  
10 mA (max) (TLP3032F (S))  
5 mA (max) (TLP3033F (S))
- On-state current: 100 mA (max)
- UL recognized: UL1577, file no. E67349
- Isolation voltage: 5000 V<sub>rms</sub> (min)
- SEMKO approved: SS EN60065  
SS EN60950  
SS EN60335
- BSI approved: BS EN60065  
BS EN60950
- Option (D4) type  
VDE approved: DIN VDE0884 / 06.92  
Certificate no. 68329  
Maximum operating insulation voltage: 890 VPK  
Highest permissible over voltage: 8000 VPK

**(Note):** When a VDE0884 approved type is needed, please designate the "Option (D4)"



Weight: 0.39 g

### Pin Configuration (top view)



- 1: ANODE
- 2: CATHODE
- 3: N.C.
- 4: TERMINAL 1
- 6: TERMINAL 2

**RESTRICTIONS ON PRODUCT USE**

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- TOSHIBA is continually working to improve the quality and reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to comply with the standards of safety in making a safe design for the entire system, and to avoid situations in which a malfunction or failure of such TOSHIBA products could cause loss of human life, bodily injury or damage to property.  
In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent TOSHIBA products specifications. Also, please keep in mind the precautions and conditions set forth in the "Handling Guide for Semiconductor Devices," or "TOSHIBA Semiconductor Reliability Handbook" etc..
- The TOSHIBA products listed in this document are intended for usage in general electronics applications (computer, personal equipment, office equipment, measuring equipment, industrial robotics, domestic appliances, etc.). These TOSHIBA products are neither intended nor warranted for usage in equipment that requires extraordinarily high quality and/or reliability or a malfunction or failure of which may cause loss of human life or bodily injury ("Unintended Usage"). Unintended Usage include atomic energy control instruments, airplane or spaceship instruments, transportation instruments, traffic signal instruments, combustion control instruments, medical instruments, all types of safety devices, etc.. Unintended Usage of TOSHIBA products listed in this document shall be made at the customer's own risk.
- Gallium arsenide (GaAs) is a substance used in the products described in this document. GaAs dust and fumes are toxic. Do not break, cut or pulverize the product, or use chemicals to dissolve them. When disposing of the products, follow the appropriate regulations. Do not dispose of the products with other industrial waste or with domestic garbage.
- The products described in this document are subject to the foreign exchange and foreign trade laws.
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