## TOSHIBA PHOTOCOUPLER GaAs IRED & PHOTO-TRIAC

## TLP3020(S),TLP3021(S),TLP3022(S),TLP3023(S)

OFFICE MACHINE HOUSEHOLD USE EQUIPMENT TRIAC DRIVER SOLID STATE RELAY

The TOSHIBA TLP3020 (S), TLP3021 (S), TLP3022 (S) and TLP3023 (S) consist of 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 TLP3020, TLP3021, TLP3022 and TLP3023.

Peak Off-State Voltage : 400 V (min)

: 30 mA (max) (TLP3020) Trigger LED Current

> 15 mA (max) (TLP3021) 10 mA (max) (TLP3022) 5 mA (max) (TLP3023)

On-State Current : 100 mA (max)

: UL1577, File No. E67349 UL Recognized

: 5000 Vrms (min) Isolation Voltage SEMKO Approved : SS EN60065 SS EN60950

SS EN60335

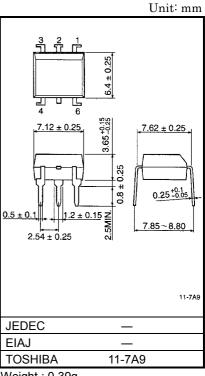
Option (D4) Type

**VDE** Approved : DIN VDE0884 / 06.92

Certificate No. 68329

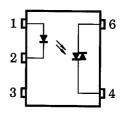
Maximum Operating Insulation Voltage: 890 Vpk Highest Permissible Over Voltage : 8000 Vpk

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



Weight: 0.39g

## PIN CONFIGURATION (Top view)



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

	7.62 mm pich	10.16 mm pich
	standard type	(LF2) type
Creepage Distance	7.0 mm (min)	8.0 mm (min)
Clearance	7.0 mm (min)	8.0 mm (min)
<b>Insulation Thickness</b>	0.5 mm (min)	0.5 mm (min)

2001-05-14

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## **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.
- The information contained herein is presented only as a guide for the applications of our products. No
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