imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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LTH-301-32 Spec No.: DS-55-96-0005 Effective Date: 07/23/2011

Revision: C



BNS-OD-FC001/A4

LITE-ON Technology Corp. / Optoelectronics No.90,Chien 1 Road, Chung Ho, New Taipei City 23585, Taiwan, R.O.C. Tel: 886-2-2222-6181 Fax: 886-2-2221-1948 / 886-2-2221-0660 http://www.liteon.com/opto

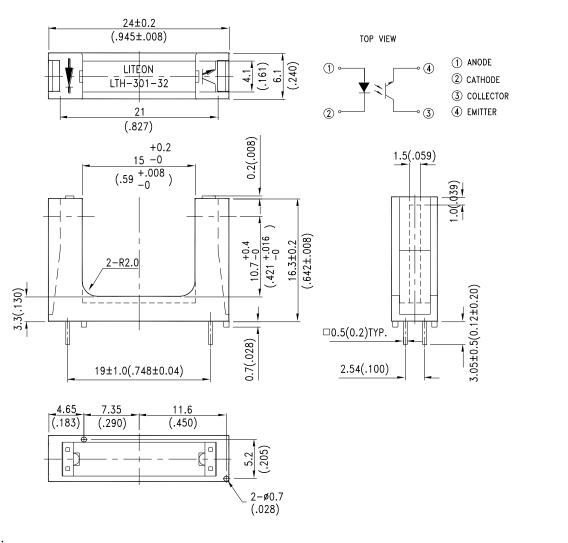
LITEON LITE-ON TECHNOLOGY CORPORATION

Property of Lite-On Only

FEATURES

- * NON-CONTACT SWITCHING.
- * FOR DIRECT PC BOARD OR DUAL-IN-LINE SOCKET MOUNTING.
- * FAST SWITCHING SPEED.

PACKAGE DIMENSIONS



NOTES:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 0.25 mm(.010") unless otherwise noted.

Part No. : LTH-301-32 DATA SHEET (REV. C, July 16, 2011)

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Property of Lite-On Only

ABSOLUTE MAXIMUM RATINGS AT TA=25°C

| PARAMETER | MAXIMUM RATING | UNIT | | |
|---|----------------|------------------------------------|--|--|
| IR Diode Continuous Forward Current | 60 | mA | | |
| IR Diode Reverse Voltage | 5 | V | | |
| Transistor Collector Current | 20 | mA | | |
| Transistor Power Dissipation | 75 | mW | | |
| IR Diode Peak Forward Current (Pulse Wide = 10 μ S, 300 pps) | 1 | А | | |
| Diode Power Dissipation | 100 | mW | | |
| Phototransistor Collector-Emitter Voltage | 30 | V | | |
| Phototransistor Emitter-Collector Voltage | 5 | V | | |
| Operating Temperature Range | -25°C to | -25° C to $+85^{\circ}$ C | | |
| Storage Temperature Range | -40°C to | -40°C to + 100°C | | |
| Lead Soldering Temperature [1.6mm(.063") From Case] | 260°C for | 260° C for 5 Seconds | | |

Part No. : LTH-301-32 DATA SHEET (REV. C, July 16, 2011)



Property of Lite-On Only

ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25°C

| PARAM | ETER | SYMBOL | MIN. | TYP. | MAX. | UNIT | TEST CONDITION | |
|-----------------------------------|-----------|----------|------|------|------|------|----------------------------|--|
| INPUT LED | | | | | | | | |
| Forward Voltage | | VF | | 1.2 | 1.6 | V | $I_F = 20 m A$ | |
| Reverse Current | | IR | | | 100 | μA | VR=5V | |
| OUTPUT PHOTOTRANSISTOR | | | | | | | | |
| Collector-Emitter Breakdown | Voltage | V(BR)CEO | 30 | | | V | IC=1mA | |
| Emitter-Collector Breakdown | Voltage | V(BR)ECO | 5 | | | V | IE=100 μ A | |
| Collector-Emitter Dark Curren | t | ICEO | | | 100 | nA | VCE=10V | |
| COUPLER | | | | | | | | |
| Collector-Emitter Saturation V | oltage | VCE(SAT) | | | 0.4 | V | IC=0.2mA IF=20mA | |
| On State Collector | | Ic(ON) | 0.6 | | | mA | VCE=5V IF=20mA | |
| Response Time | Rise Time | tr | | 3 | 15 | μS | V _{CE} =5V,Ic=2mA | |
| | Fall Time | tf | | 4 | 20 | | RL=100Ω | |

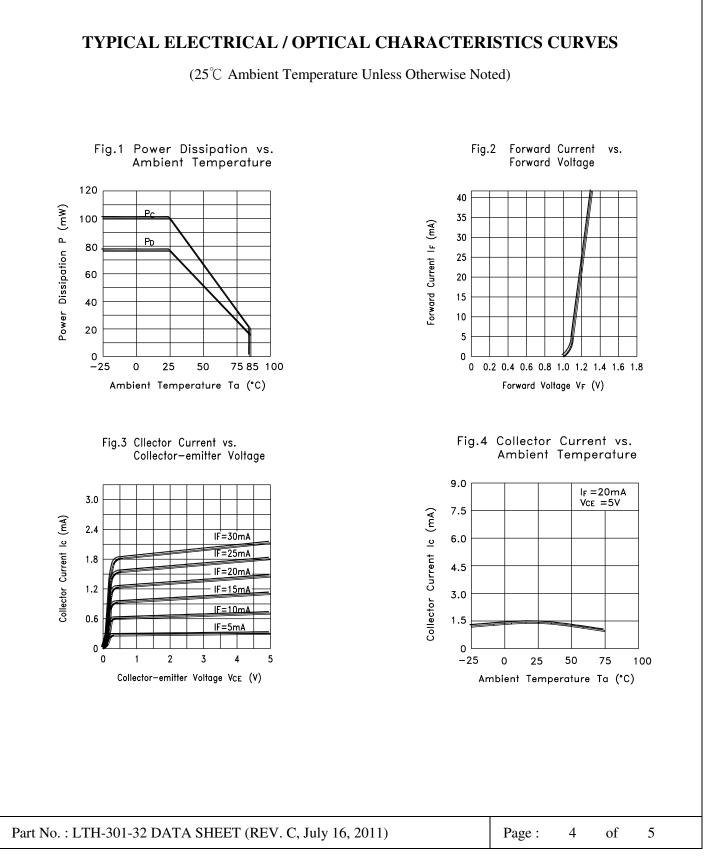
Part No. : LTH-301-32 DATA SHEET (REV. C, July 16, 2011)

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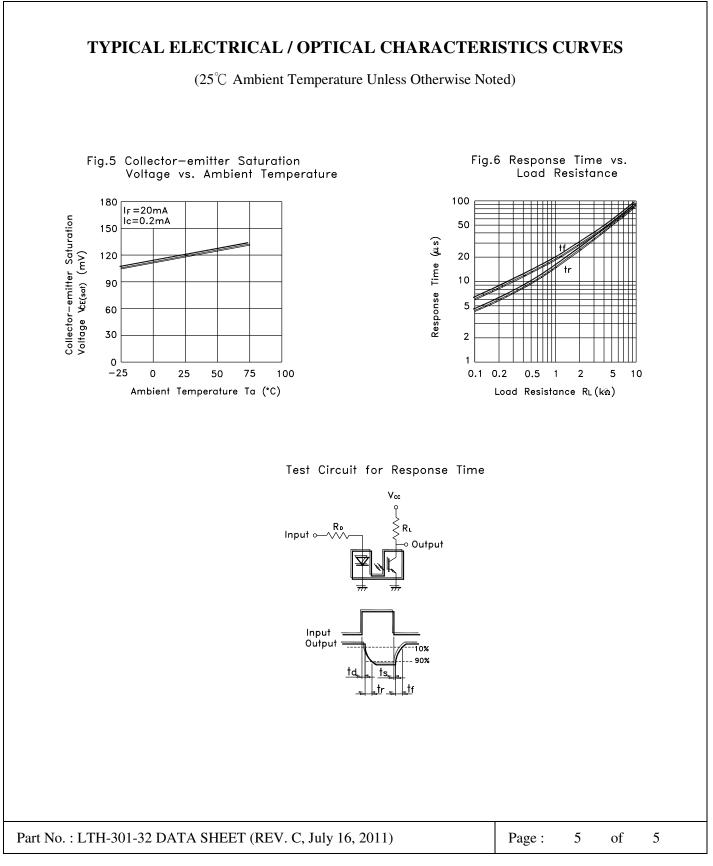
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