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!



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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

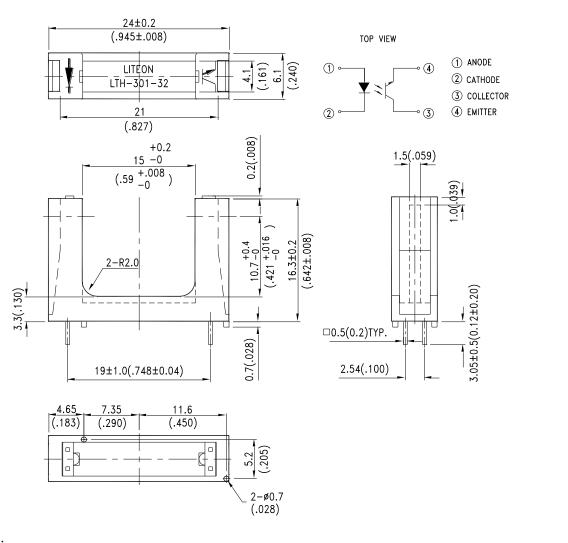
LITEON LITE-ON TECHNOLOGY CORPORATION

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	

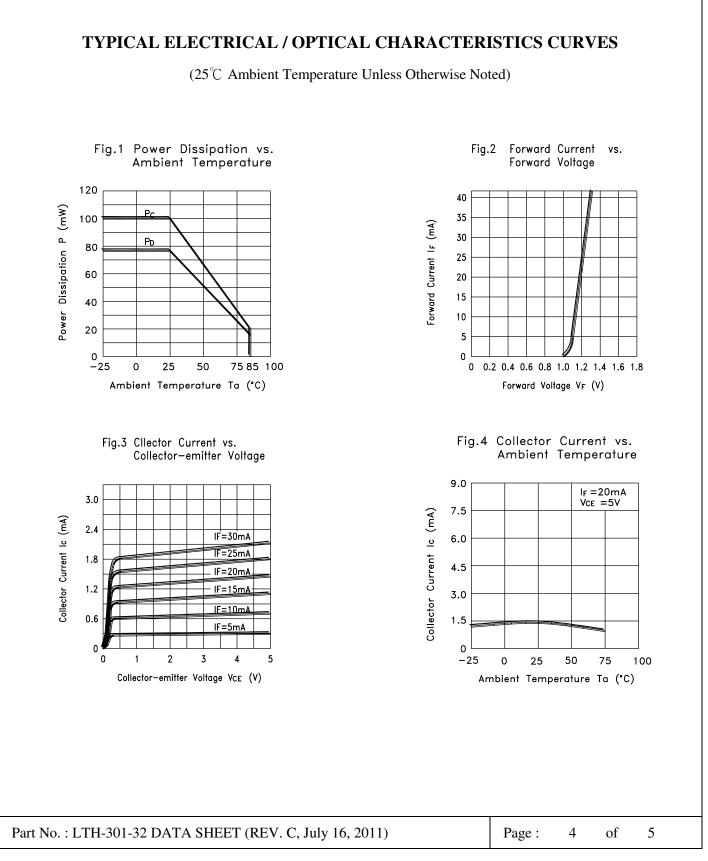
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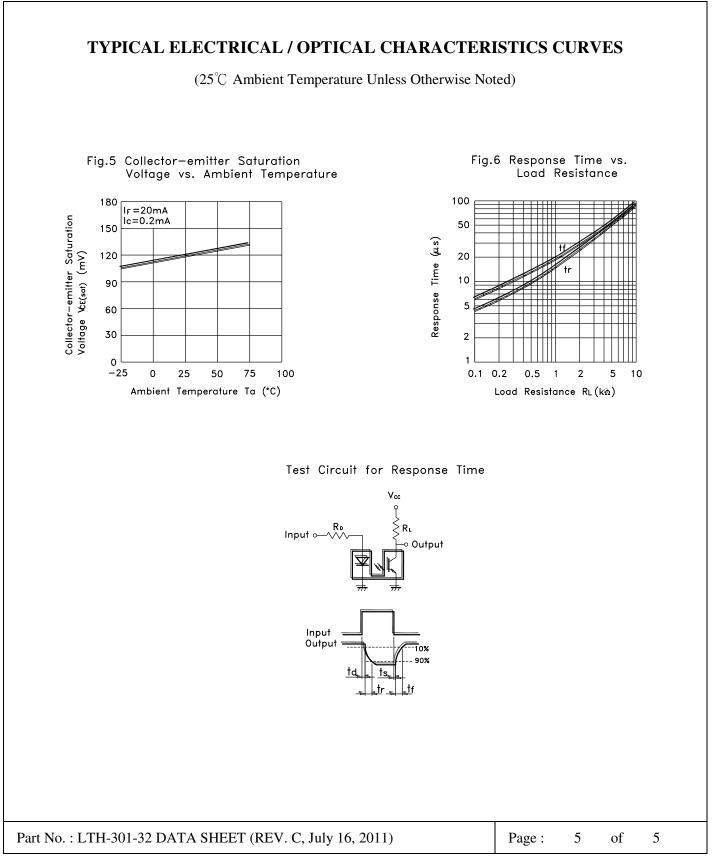
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BNS-OD-C131/A4



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