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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







Spec No.: DS-55-92-0005 Effective Date: 08/23/2002 Revision: A



BNS-OD-FC001/A4

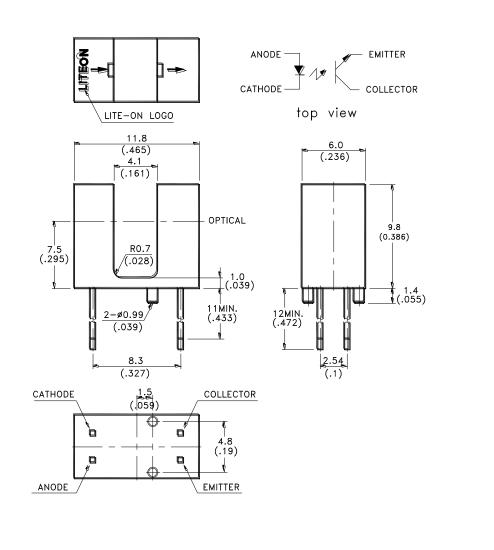
LITE-ON Technology Corp. / Optoelectronics No.90,Chien 1 Road, Chung Ho, New Taipei City 23585, Taiwan, R.O.C. Tel: 886-2-2222-6181 Fax: 886-2-2221-1948 / 886-2-2221-0660 http://www.liteon.com/opto

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-301-19 DATA SHEET

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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	100	mW	
IR Diode Peak Forward Current (Pulse Wide = 10 μ S, 300 pps)	1	А	
Diode Power Dissipation	75	mW	
Phototransistor Collector-Emitter Voltage	30	V	
Phototransistor Emitter-Collector Voltage	5	V	
Operating Temperature Range	-25° C to $+85^{\circ}$ C		
Storage Temperature Range	-40°C to + 100°C		
Lead Soldering Temperature [1.6mm(.063") From Body , Plastic Housing Exclude]	260°C for 5 Seconds		

Part No.: LTH-301-19 DATA SHEET

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ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25°C

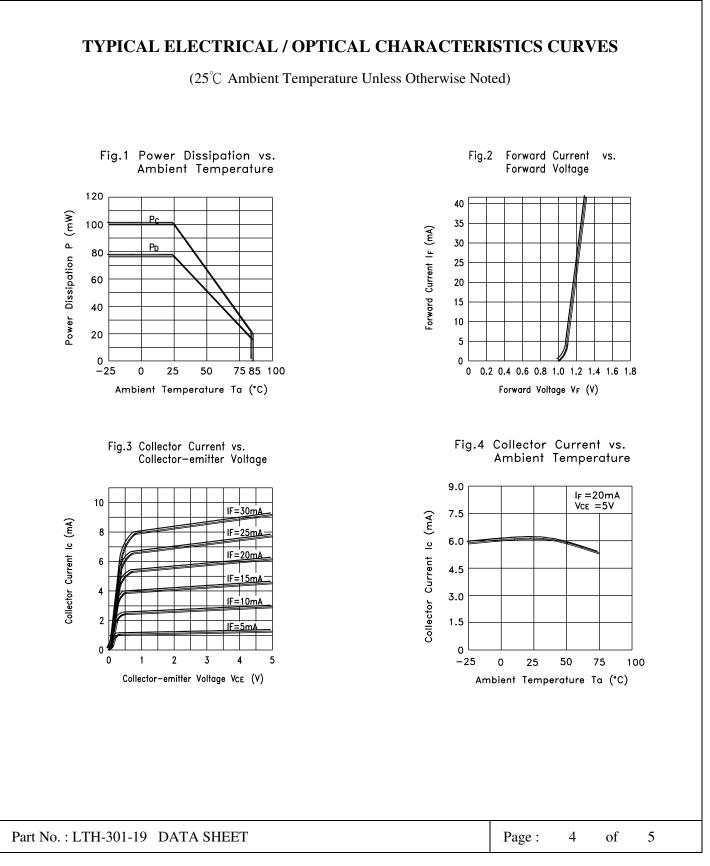
PARAN	IETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
INPUT LED				1		•	
Forward Voltage		VF		1.2	1.6	V	IF = 20mA
Reverse Current		IR			100	$\mu \mathbf{A}$	VR=5V
OUTPUT PHOTC	OTRANSISTOR						
Collector-Emitter Breakdown	Voltage	V(BR)CEO	30			V	IC=1mA
Emitter-Collector Breakdown Voltage		V(BR)ECO	5			V	IE=100 μ A
Collector-Emitter Dark Current		ICEO			100	nA	VCE=10V
COUPLER							
Collector-Emitter Saturation	Voltage	VCE(SAT)			0.4	v	IC=70 μ A IF=1.4mA
On State Collector Current		IC(ON)	70			μA	VCE=3.3V IF=1.4 mA
					10	mA	VCE=5V IF=20mA
Response Time	Rise Time	tr		3	15	15 20 μS	V _{CE} =5V,Ic=2mA
	Fall Time	tf		4	20		RL=100Ω

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