

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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Spec No.: DS-55-95-0010Effective Date: 07/25/2000

Revision: -

LITE-ON DCC

RELEASE

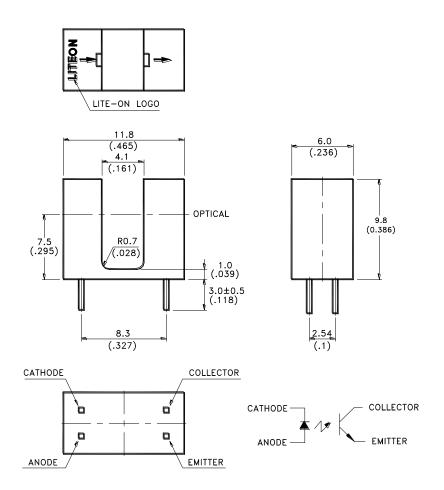
BNS-OD-FC001/A4

Property of LITON 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.
- 3. Specification are subject to change without notice.

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Property of LITON Only

ABSOLUTE MAXIMUM RATINGS AT TA=25℃

PARAMETER	MAXIMUM RATING	UNIT		
IR Diode Continuous Forward Current	50	mA		
IR Diode Reverse Voltage	5	V		
Transistor Collector Current	40	mA		
Transistor Power Dissipation	100	mW (Note 1)		
IR Diode Peak Forward Current (Pulse Wide = $10 \mu S$, $300 pps$)	1	A		
Diode Power Dissipation	75	mW (Note 1)		
Phototransistor Collector-Emitter Voltage	30	V		
Phototransistor Emitter-Collector Voltage	5	V		
Operating Temperature Range	-35°C to + 65°C			
Storage Temperature Range	-40°C to + 100°C			
Lead Soldering Temperature [1.6mm(.063") From Case]	260°C for 5 Seconds			

Note 1: Derate Linearly 1.33mW/℃ from 25℃

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ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25°C

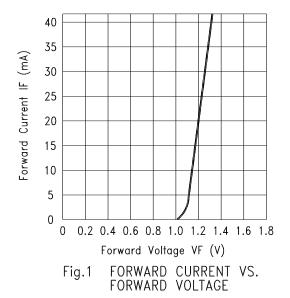
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION	
INPUT LED							
Forward Voltage	VF		1.2	1.6	V	$I_F = 20 \text{mA}$	
Reverse Current	IR			100	μ A	VR=5V	
OUTPUT PHOTOTRANSISTOR							
Collector-Emitter Breakdown Voltage	V(BR)CEO	30			V	Ic=1mA	
Emitter-Collector Breakdown Voltage	V(BR)ECO	5			V	IE=100 μ A	
Collector-Emitter Dark Current	ICEO			100	nA	VCE=10V	
COUPLER							
Collector-Emitter Saturation Voltage	VCE(SAT)			0.4	V	IC=0.25mA IF=20mA	
On State Collector Current	Ic(ON)	1.5			mA	VCE=5V IF=20mA	

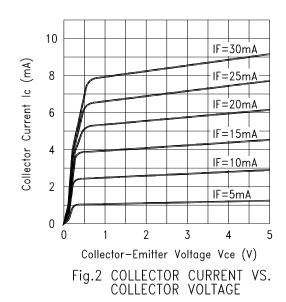
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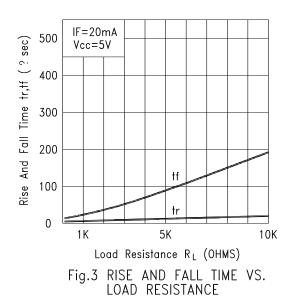
Property of LITON Only

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)







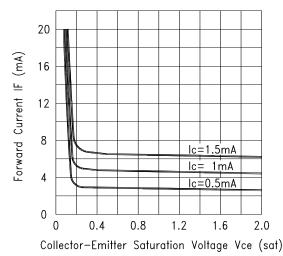


Fig.4 FORWARD CURRENT VS.
Collector—Emitter Saturation Voltage

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