

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-55-94-0001Effective Date: 04/07/2000

Revision: A

LITE-ON DCC

RELEASE

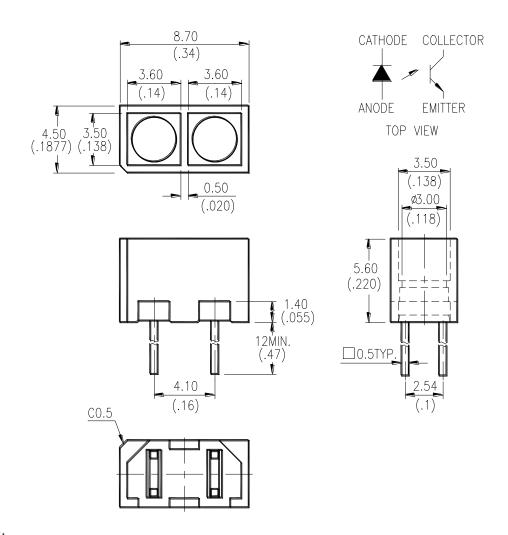
BNS-OD-FC001/A4

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.
- 3. Lead spacing is measured where the leads emerge from the package.

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Property of Lite-On Only

ABSOLUTE MAXIMUM RATINGS AT TA=25℃

PARAMETER	SYMBOL	MAXIMUM RATING	UNIT						
INPUT DIODE									
Power Dissipation	P _D	90	mW						
Peak Forward Current (300 pps , 10 μ S pulse)	I_{CP}	1	A						
Continuous Forward Current	I_{F}	60	mA						
Reverse Voltage	V_R	5	V						
OUTPUT PHOTOTRANSISTOR									
Power Dissipation	P _C	100	mW						
Collector-Emitter Voltage	V_{CEO}	30	V						
Emitter-Collector Voltage	V _{ECO}	5	V						
Collector Current	I_{C}	20	mA						
Operating Temperature Range	$T_{ m opr}$	-25°C to + 85°C							
Storage Temperature Range	T_{stg}	-40°C to + 100°C							
Lead Soldering Temperature [1.6mm (.063") Form Case]	T_{S}	260°C for 5 Seconds							

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Property of Lite-On Only

ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION	Bin No.			
INPUT DIODE										
Forward Voltage	$V_{\rm F}$		1.2	1.6	V	$I_F = 20 \text{mA}$				
Reverse Current	I_R			100	μ A	V _R =5V				
OUTPUT PHOTOTRANSISTOR										
Collector-Emitter Dark Current	I _{CEO}			100	nA	V _{CE} =10V				
COUPLER										
Collector-Emitter Saturation Voltage	V _{CE(SAT)}			0.4	V	I_{C} =0.2mA I_{F} =20mA				
On State Collector Current	$I_{C(ON)}$	200		400	uA	VCE=5V	BIN A			
		300		600		IF=20mA d=3.5mm (90% Reflective	BIN B			
		500		1000			BIN C			
		800		1600		White Paper)	BIN D			

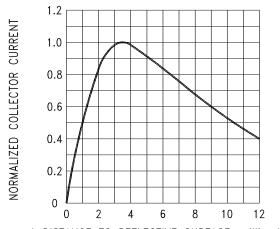
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Property of Lite-On Only

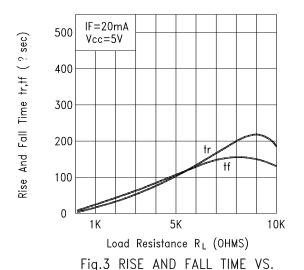
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

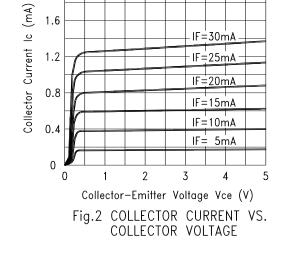
2.0



d-DISTANCE TO REFLECTIVE SURFACE-millimeter Fig.1 NORMALIZED COLLECTOR CURRENT VS. OBJECT DISTANCE



LOAD RESISTANCE



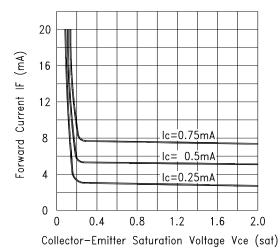


Fig.4 FORWARD CURRENT VS.
Collector—Emitter Saturation Voltage

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