

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-55-92-0001** Effective Date: 03/05/2002

Revision: A

**LITE-ON DCC** 

**RELEASE** 

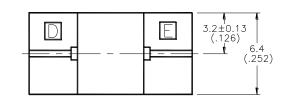
BNS-OD-FC001/A4

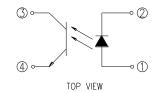
Property of LITE-ON Only

#### **FEATURES**

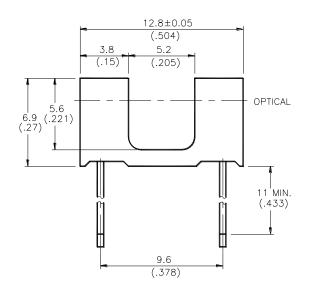
- \* NON-CONTACT SWITCHING.
- \* FOR DIRECT PC BOARD OR DUAL-IN-LINE SOCKET MOUNTING.
- \* FAST SWITCHING SPEED.

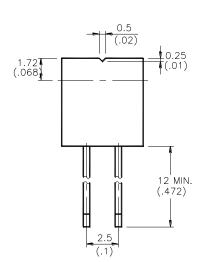
#### PACKAGE DIMENSIONS





- ① ANODE
- ② CATHODE
- 3 COLLECTOR
- (4) EMITTER





### NOTES:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.25$ mm(.010") unless otherwise noted.
- 3. Specifications are subject to change without notice.

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Property of Lite-On Only

### ABSOLUTE MAXIMUM RATINGS AT TA=25°C

PARAMETER	MAXIMUM RATING	UNIT					
INPUT LED							
Power Dissipation	75	mW					
Peak Forward Current ( 300 pps , 10 $\mu$ S pulse)	1	A					
Continuous Forward Current	50	mA					
Reverse Voltage	5	V					
OUTPUT PHOTOTRANSISTOR							
Power Dissipation	100	mW					
Collector-Emitter Voltage	30	V					
Emitter-Collector Voltage	5	V					
Collector Current	20	mA					
Operating Temperature Range	-25°C to +85°C						
Storage Temperature Range	-40°C to + 100°C						
Lead Soldering Temperature [ 1.6mm (.063") Form Case ]	260°C for 5 Seconds						

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Property of Lite-On Only

### ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25°C

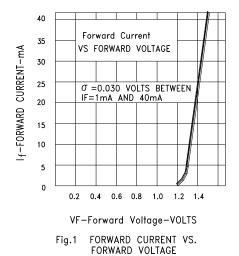
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION	
INPUT LED							
Forward Voltage	VF		1.2	1.6	V	$I_F = 20 \text{mA}$	
Reverse Current	IR			100	μΑ	VR=5V	
OUTPUT PHOTOTRANSISTOR							
Collector-Emitter Breakdown Voltage	V(BR)CEO	30			V	IC=1mA	
Emitter-Collector  Breakdown Voltage	V(BR)ECO	5			V	IE=100 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)	0.5			mA	VCE=5V IF=20mA	

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Property of Lite-On Only

#### TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



10 3 Vcc=10V

WEY

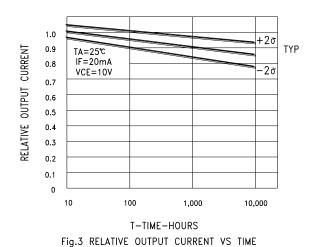
10 1 10 2

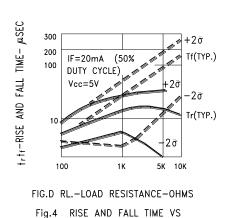
10 0 -1

0 -50 -25 0 25 50 75 100

TA-Ambient Temperature - ° C

Fig.2 RELATIVE RADIANT INTENSITY VS. AMBIENT TEMPERATURE





LOAD RESISTANCE

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