

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-55-99-0008 Effective Date: 06/15/2000

Revision: C

LITE-ON DCC

RELEASE

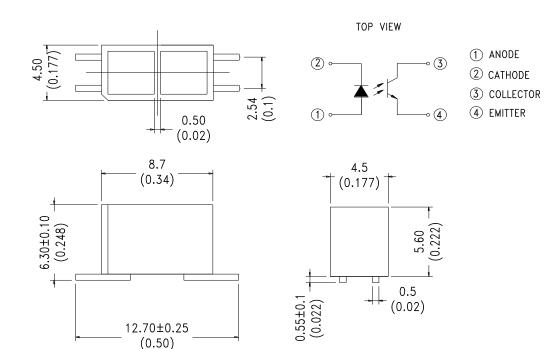
BNS-OD-FC001/A4

Property of LITE-ON Only

FEATURES

- * NON-CONTACT SWITCHING.
- * FAST SWITCHING SPEED.

PACKAGE DIMENSIONS



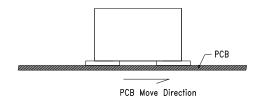
NOTES:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 0.25 mm(.010") unless otherwise noted.
- 3. Applicable to reflow soldering:

Preheat: 160°C within 120 seconds Reflow: 220°C within 20 seconds

(Peak : 220°C)

4. Device put on PCB position for reflow as follow:



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Property of Lite-On Only

TAPING DIMENSIONS 4.00±0.10 2.00±0.10 12.00±0.10 1.75±0.10 ø1.55±0.05 11.50±0.10 -PTR(LTR-1550D-I) ≥ 8 - Ø1.5 min 24.00± 0.30 4.90 +0.1 A013.1 +0.1 -0.4 $B\,0$ 6.60 ± 0.10 **SOLDERING AREA:** Solder Position ⊩ 0.20

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Property of Lite-On Only

ABSOLUTE MAXIMUM RATINGS AT TA=25°C

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			
INPUT DIODE										
Forward Voltage		$V_{\rm F}$		1.2	1.6	V	$I_F = 20mA$			
Reverse Current		I_R			100	μΑ	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 =0.5mA I _F =20mA			
On State Collector Current I _O			BIN A	750		1150	uA	V_{CE} =5 V I_F =20 mA D =3.5 mm		
		$I_{C(ON)}$	BIN B	1090		1430				
			BIN C	1370		1770		(90% Reflective White Paper)		
Response Time	Rise Time Fall Time		T_R		3	15	μS	$V_{CE}=5V$, $I_{C}=2mA$		
			T_{F}		4	20		$R_L=100 \Omega$		

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Property of Lite-On Only

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

Fig.1 Power Dissipation vs.
Ambient Temperature

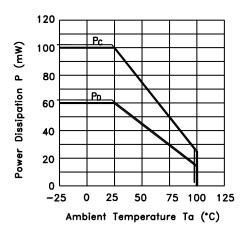


Fig.3 Collector Current vs. Forward Voltage

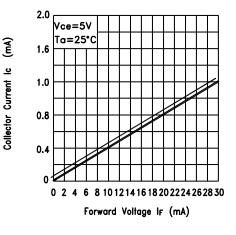


Fig.2 Forward Current vs. Forward Voltage

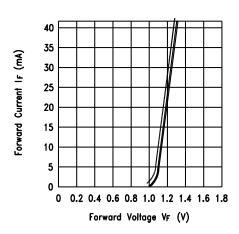
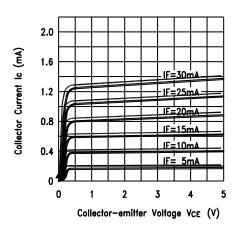


Fig.4 Collector Current vs.
Collector-emitter Voltage



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Property of Lite-On Only

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

Fig.5 Collector Current vs.
Ambient Temperature

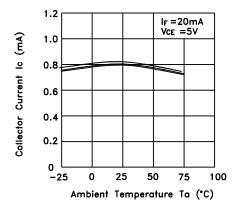
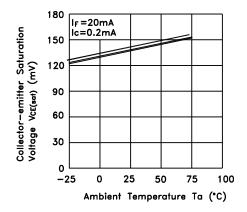


Fig.6 Collector—emitter Saturation
Voltage vs. Ambient Temperature



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