

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-55-95-0005 Effective Date: 08/29/2001

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4



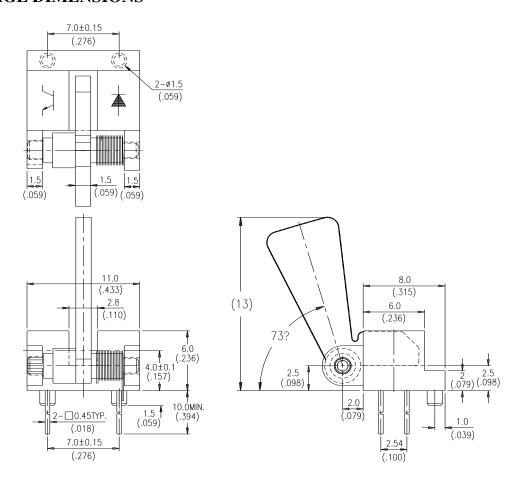
LITEON LITE-ON TECHNOLOGY CORPORATION

Property of LITE-ON Only

FEATURES

- * MECHANICAL SWITCH REPLACEMENT.
- * FOR DIRECT PC BOARD OR DUAL-IN-LINE SOCKET MOUNTING.
- * CUSTOMIZED LEVER ARM CAN BE DESIGNED FOR SPECIFIC APPLICATION.

PACKAGE DIMENSIONS



NOTES:

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

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ABSOLUTE MAXIMUM RATINGS AT TA=25°C

PARAMETER	MAXIMUM RATING	UNIT			
IR Diode Continuous Forward Current	50	mA			
IR Diode Reverse Voltage	5	V			
Transistor Collector Currant	20	mA			
Transistor Power Dissipation	75	mW(Note 1)			
IR Diode Peak Forward Current (Pulse Wide = $10 \mu S$, $300 pps$)	1	A			
Diode Power Dissipation	60	mW(Note 1)			
Phototransistor Collector-Emitter Voltage	30	V			
Phototransistor Emitter-Collector Voltage	5	V			
Operating Temperature Range	-25°C to + 85°C				
Storage Temperature Range	-55°C to + 100°C				
Lead Soldering Temperature [1.6mm (.063") Form Case]	260°C for 5 Seconds				

Note 1: Derate Linearly 1.33 mW/°C from 25°C

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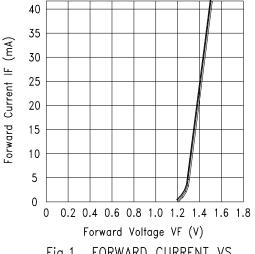
ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25°C

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	μΑ	V _R =5V	
OUTPUT PHOTOTRANSISTOR							
Collector-Emitter Breakdown Voltage	BVCEO	30			V	Ic=1mA	
Emitter-Collector Breakdown Voltage	BVECO	5			V	I _E =100 μ A	
Collector-Emitter Dark Current	ICEO			100	nA	V _{CE} =10V	
COUPLER							
Collector-Emitter Saturation Voltage	VCE(SAT)			0.4	V	I _C =0.25mA I _F =20mA	
On State Collector Current	Ic(ON)	0.5			mA	V _{CE} =5V I _F =20mA	

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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



FORWARD CURRENT VS. FORWARD VOLTAGE Fig.1

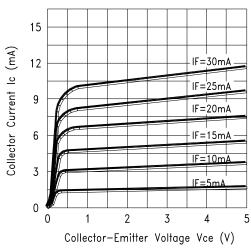


Fig.2 COLLECTOR CURRENT VS. COLLECTOR VOLTAGE

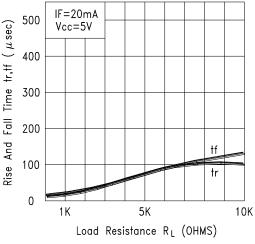
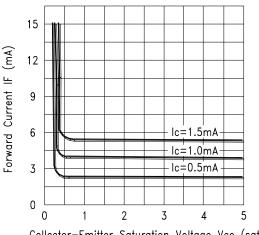


Fig.3 RISE AND FALL TIME VS. LOAD RESISTANCE



Collector-Emitter Saturation Voltage Vce (sat)

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

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