



Photointerrupter Product Data Sheet LTH-1550-01

Spec No.: DS-55-94-0001

Effective Date: 04/07/2000

Revision: A

LITE-ON DCC

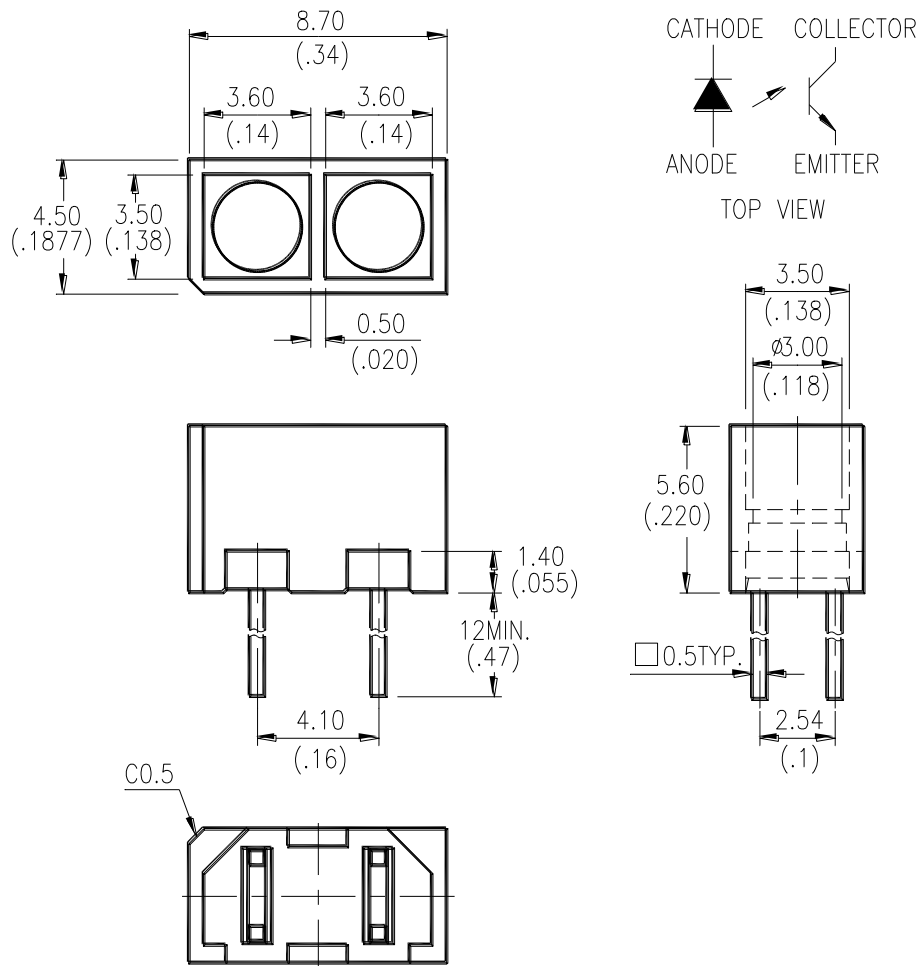
RELEASE

BNS-OD-FC001/A4

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 $\pm 0.25\text{mm} (.010\text{'})$ unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.

ABSOLUTE MAXIMUM RATINGS AT TA=25°C

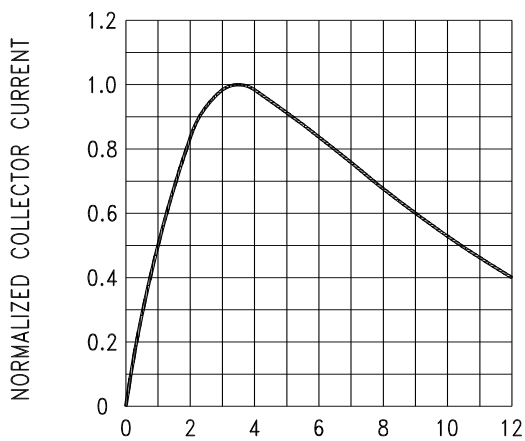
PARAMETER	SYMBOL	MAXIMUM RATING	UNIT
INPUT DIODE			
Power Dissipation	P_D	90	mW
Peak Forward Current (300 pps , 10 μ S pulse)	I_{CP}	1	A
Continuous Forward Current	I_F	60	mA
Reverse Voltage	V_R	5	V
OUTPUT PHOTOTRANSISTOR			
Power Dissipation	P_C	100	mW
Collector-Emitter Voltage	V_{CEO}	30	V
Emitter-Collector Voltage	V_{ECO}	5	V
Collector Current	I_C	20	mA
Operating Temperature Range	T_{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	

ELECTRICAL OPTICAL CHARACTERISTICS AT T_A=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION	Bin No.
INPUT DIODE							
Forward Voltage	V _F		1.2	1.6	V	I _F = 20mA	
Reverse Current	I _R			100	μA	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	V _{CE} =5V I _F =20mA d=3.5mm (90% Reflective White Paper)	BIN A
		300		600			BIN B
		500		1000			BIN C
		800		1600			BIN D

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



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

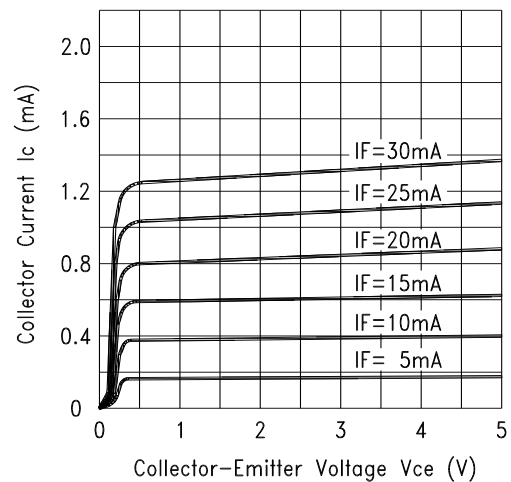


Fig.2 COLLECTOR CURRENT VS. COLLECTOR VOLTAGE

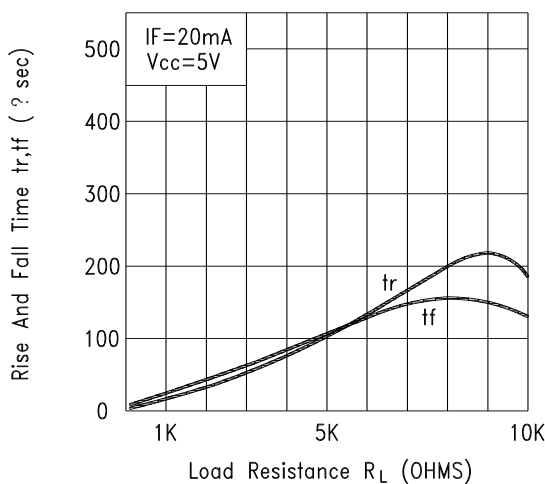


Fig.3 RISE AND FALL TIME VS. LOAD RESISTANCE

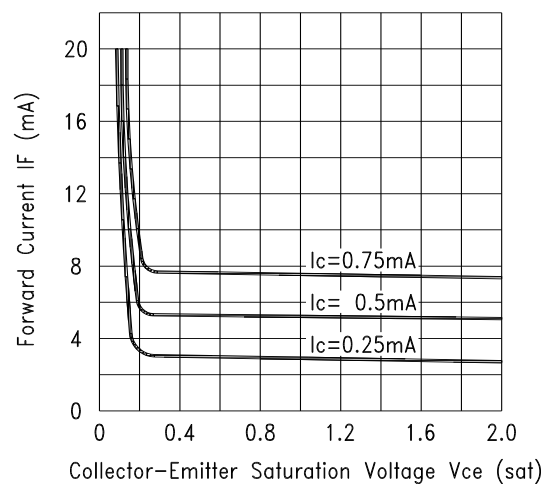


Fig.4 FORWARD CURRENT VS. Collector-Emitter Saturation Voltage

单击下面可查看定价，库存，交付和生命周期等信息

[>>Lite-On\(光宝\)](#)