

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-50-92-0068** Effective Date: 05/03/2000

Revision: A

**LITE-ON DCC** 

**RELEASE** 

BNS-OD-FC001/A4



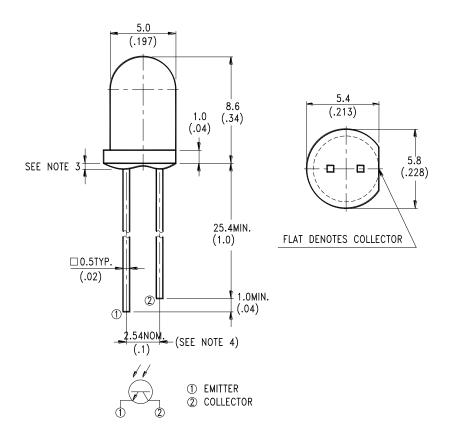
# LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

#### **FEATURES**

- \* WIDE RANGE OF COLLECTOR CURRENT
- \* THE LENS IS FOR HIGH SENSITIVITY
- \* LOW COST PLASTIC PACKAGE
- \* THE LTR-3208E IS A SPECIAL DARK PLASTIC PACKAGE THAT CUT THE VISIBLE LIGHT AND SUITABLE FOR THE DETECTORS OF INFRARED APPLICATIONS

#### PACKAGE DIMENSIONS



#### NOTES:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.25$ mm(.010") unless otherwise noted.
- 3. Protruded resin under flange is 1.5mm(.059") max.
- 4. Lead spacing is measured where the leads emerge from the package.
- 5. Specifications are subject to change without notice.

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## ABSOLUTE MAXIMUM RATINGS AT TA=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation	100	mW			
Collector-Emitter Voltage	30	V			
Emitter-Collector Voltage	5	V			
Operating Temperature Range	-40°C to +85°C				
Storage Temperature Range	-55°C to + 100°C				
Lead Soldering Temperature [1.6mm(.063") From Body]	260°C for 5 Seconds				

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

PARAMETER	SYMBOL	MIN.	TYP.	MAX	UNIT	TEST CONDITION	BIN NO.
Collector-Emitter Breakdown Voltage	V <sub>(BR)CEO</sub>	30			V	$I_C = 1 \text{mA}$ $Ee = 0 \text{mW/cm}^2$	
Emitter-Collector Breakdown Voltage	V <sub>(BR)ECO</sub>	5			V	$I_E = 100 \mu A$ $Ee = 0 \text{mW/cm}^2$	
Collector Emitter Saturation Voltage	V <sub>CE(SAT)</sub>		0.1	0.4	V	$I_C = 100 \mu \text{ A}$ $Ee = 1 \text{mW/cm}^2$	
Rise Time	Tr		10		$\mu$ s	$V_{CC} = 5V$ $I_{C} = 1mA$ $R_{L} = 1K\Omega$	
Fall Time	Tf		15		$\mu$ s		
Collector Dark Current	$I_{CEO}$			100	nA	$V_{CE} = 10V$ $Ee = 0mW/c \text{ m}^2$	
On State Collector Current	$I_{C(ON)}$	0.64		1.68	mA	$V_{CE} = 5V$ $Ee = 1 \text{mW/c m}^2$ $\lambda = 940 \text{nm}$	BIN A
		1.12		2.16			BIN B
		1.44		2.64			BIN C
		1.76		3.12			BIN D
		2.08		3.60			BIN E
		2.40					BIN F

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### TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

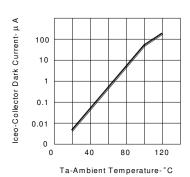


FIG.1 COLLECTOR DARK CURRENT VS AMBIENT TEMPERATURE

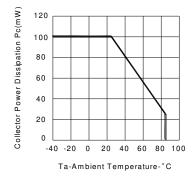


FIG.2 COLLECTOR POWER DISSIPATION VS AMBIENT TEMPERATURE

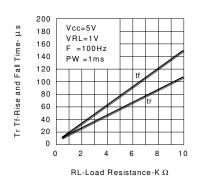


FIG.3 RISE AND FALL TIME VS LOAD RESISTANCE

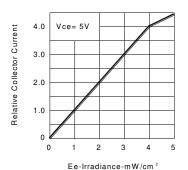


FIG.4 RELATIVE COLLECTOR CURRENT VS IRRADIANCE

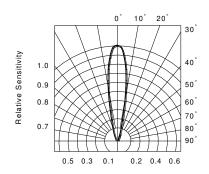


FIG.5 SENSITIVITY DIAGRAM

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