



Spec No.: DS-50-92-0068 Effective Date: 05/03/2000

Revision: A

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4



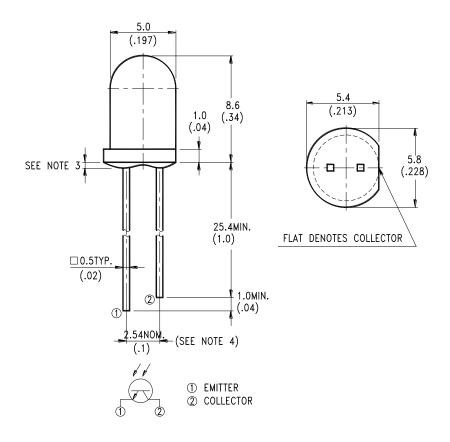
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FEATURES

- * 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 ± 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.

Part No.: LTR-3208E DATA SHEET Page: 1 of 3



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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 $^{\circ}$ C

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

Part No.: LTR-3208E DATA SHEET Page: 2 of 3

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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

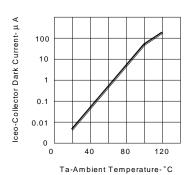


FIG.1 COLLECTOR DARK CURRENT VS AMBIENT TEMPERATURE

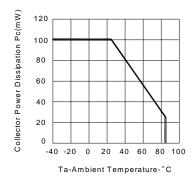


FIG.2 COLLECTOR POWER DISSIPATION VS AMBIENT TEMPERATURE

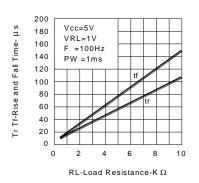


FIG.3 RISE AND FALL TIME VS LOAD RESISTANCE

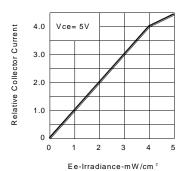


FIG.4 RELATIVE COLLECTOR CURRENT VS IRRADIANCE

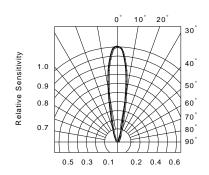


FIG.5 SENSITIVITY DIAGRAM

Part No.: LTR-3208E DATA SHEET Page: 3 of 3

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