imall

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!



Contact us

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IR Emitter and Detector Product Data Sheet

LTR-536AD Spec No.: DS-50-92-0089 Effective Date: 05/18/2010 Revision: C



BNS-OD-FC001/A4

LITE-ON Technology Corp. / Optoelectronics No.90,Chien 1 Road, Chung Ho, New Taipei City 23585, Taiwan, R.O.C. Tel: 886-2-2222-6181 Fax: 886-2-2221-1948 / 886-2-2221-0660 http://www.liteon.com/opto



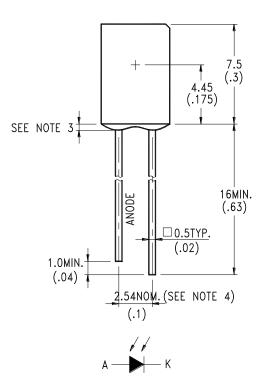
Property of Lite-On Only

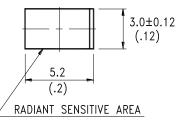
FEATURES

- * HIGH PHOTO SENSITIVITY
- * SUITABLE FOR INFRARED RADIATION
- * LOW JUNCTION CAPACITANCE
- * HIGH CUT-OFF FREQUENCY
- * FAST SWITCHING TIME

* THE LTR-536AD IS A SPECIAL DARK GREEN 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-536AD DATA SHEET

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Property of Lite-On Only

ABSOLUTE MAXIMUM RATINGS AT TA=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation	150	mW			
Reverse Voltage	30	V			
Operating Temperature Range	-40°C to + 85°C				
Storage Temperature Range	-55° C to $+ 100^{\circ}$ C				
Lead Soldering Temperature [1.6mm(.063") From Body]	260° C for 5 Seconds				

ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25°C

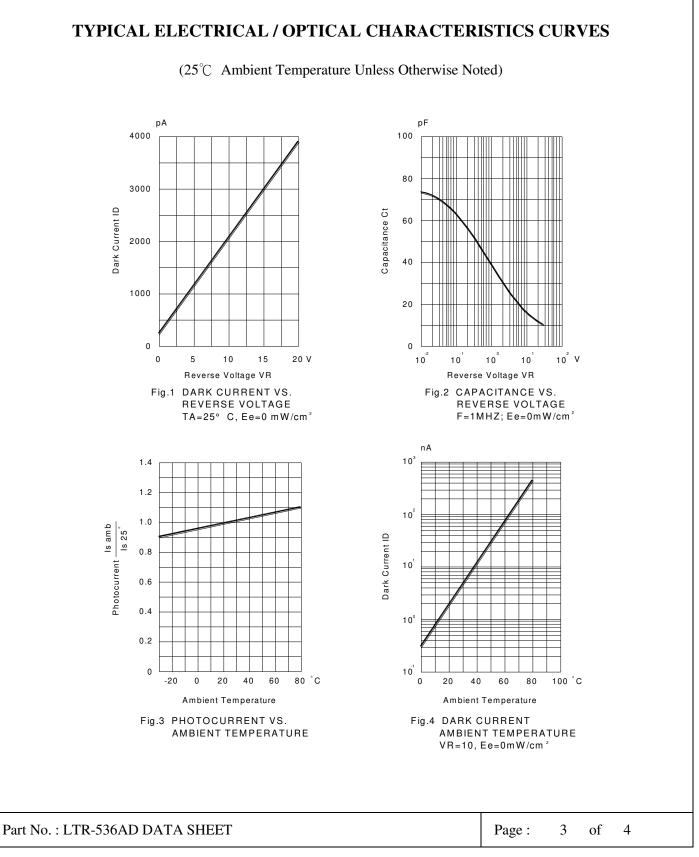
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Reverse Break Down Voltage	V(BR)R	30			V	$IR = 100 \mu A$ $Ee = 0mW/cm^{2}$
Reverse Dark Current Voltage	ID(R)			30	nA	$V_R = 10V$ Ee = 0mW/cm ²
Open Circuit Voltage	Voc		350		mV	$\lambda = 940$ nm Ee = 0.5mW/cm ²
Rise Time	Tr		50		nsec	$V_{R} = 10V$ $\lambda = 940 nm$
Fall Time	Tf		50		nsec	$\chi = 940 \text{ mm}$ RL = 1K Ω
Short Circuit Current	Is	1.7	2		μ A	$V_{R} = 5V$ $\lambda = 940nm$ $Ee = 0.1mW/cm^{2}$
Total Capacitance	Ст		25		Р	$V_{R} = 3V$ f = 1MHZ Ee = 0mW/cm ²
Wavelength of the Max Sensitivity	λ smax		900		nm	

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BNS-OD-C131/A4



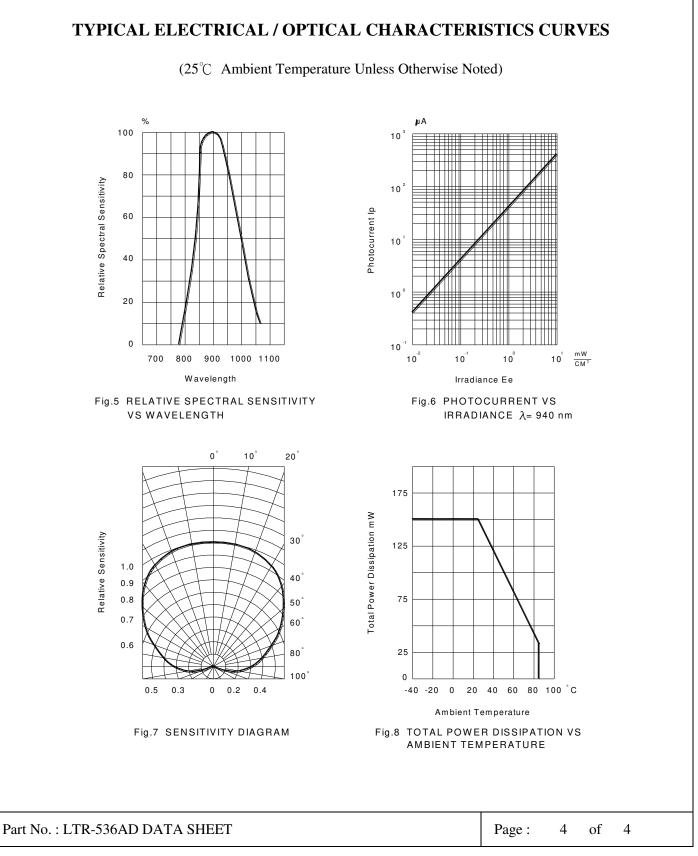
Property of Lite-On Only



BNS-OD-C131/A4



Property of Lite-On Only



BNS-OD-C131/A4