

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-50-94-0022 Effective Date: 06/10/2010

Revision: C

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

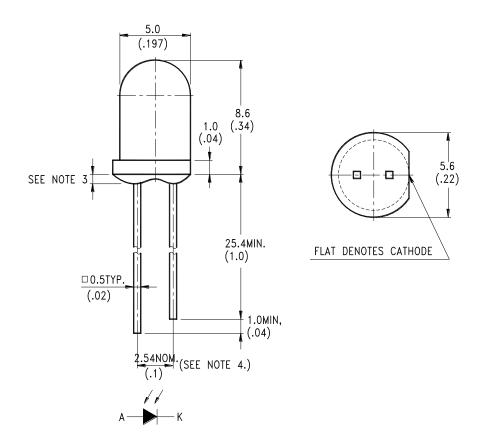
LITE-ON TECHNOLOGY CORPORATION.

Property of Lite-On Only

FEATURES

- * FAST SWITCHING TIME
- * THE LENS IS FOR HIGH SENSITIVITY
- * LOW JUNCTION CAPACITANCE
- * HIGH CUT-OFF FREQUENCY

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.

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ABSOLUTE MAXIMUM RATINGS AT TA=25℃

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°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	$IR = 100 \mu A$ $Ee = 0 \text{mW/cm}^2$
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	$V_{R} = 10V$ $\lambda = 940 \text{nm}$ $R_{L} = 1 \text{K} \Omega$
Fall Time	Tf		50		nsec	
Short Circuit Current	Is	8	13		μ A	$V_{R} = 5V$ $\lambda = 940 \text{nm}$ $Ee = 0.1 \text{mW/cm}^2$
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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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

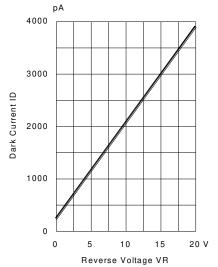


Fig.1 DARK CURRENT VS.
REVERSE VOLTAGE
TA=25° C, Ee=0 mW/cm²

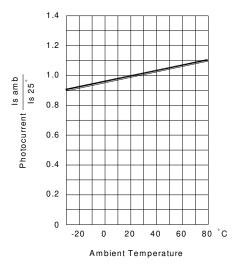
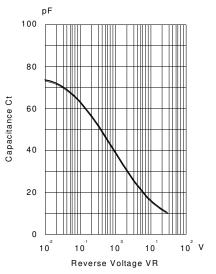


Fig.3 PHOTOCURRENT VS.
AMBIENT TEMPERATURE



 $\begin{array}{ccc} Fig.2 & CAPACITANCE \ VS. \\ & REVERSE \ VOLTAGE \\ & F=1MHZ; \ Ee=0mW/cm^2 \end{array}$

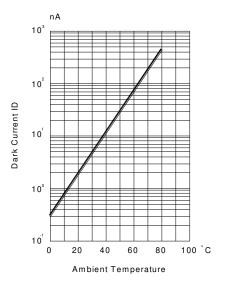


Fig.4 DARK CURRENT AMBIENT TEMPERATURE VR=10, Ee=0mW/cm²

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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

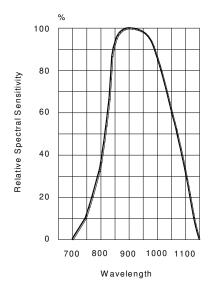


Fig.5 RELATIVE SPECTRAL SENSITIVITY VS WAVELENGTH

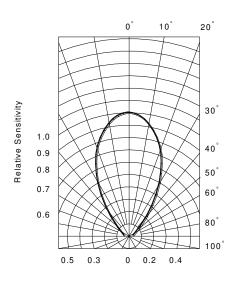


Fig.7 SENSITIVITY DIAGRAM

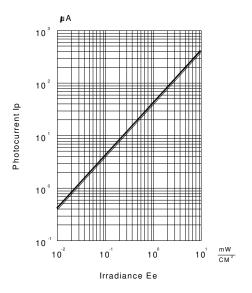


Fig.6 PHOTOCURRENT VS IRRADIANCE λ = 940 nm

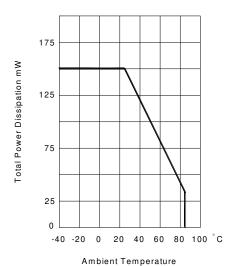


Fig.8 TOTAL POWER DISSIPATION VS
AMBIENT TEMPERATURE

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