

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-50-93-0018 Effective Date: 09/18/2010

Revision: B

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4



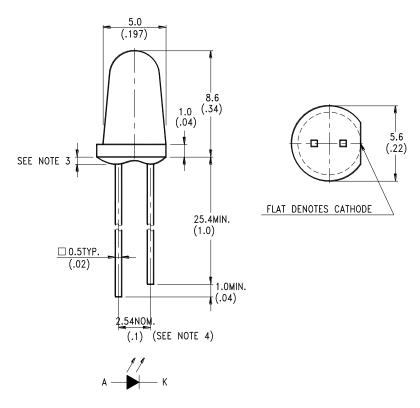
LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

FEATURES

- * SELECTED TO SPECIFIC ON-LINE INTENSITY AND RADIANT INTENSITY RANGES
- * LOW COST PLASTIC END LOOKING PACKAGE
- * MECHANICALLY AND SPECTARALLY MATCHED TO THE LTR-3208 SERIES OF **PHOTOTRANSISTOR**
- * THE LTE-2872U SERIES ARE MADE WITH GALLIUM ALUMINUM ARSENIDE WINDOW LAYER ON GALLIUM ARSENIDE INFRARED EMITTER DIODES
- * UL APPROVED FOR SMOKING DETECTOR, UL FILE NO.:S5010
- * NARROW BEAM
- * CLEAR TRANSPARENT COLOR PACKAGE

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°C

PARAMETER	MAXIMUM RATING	UNIT		
Power Dissipation	250	mW		
Peak Forward Current (300pps, 10 μ s pulse)	3	A		
Continuous Forward Current	150	mA		
Reverse 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	SYMBO		TYP.	MAX.	UNIT	TEST	BIN
	L					CONDITION	NO.
Aperture Radiant Incidence	Ee	0.44		0.96	mW/cm²	$I_F = 20 \text{mA}$	BIN A
		0.64		1.20			BIN B
		0.80		1.68			BIN C
		1.12		1.90			BIN D1
		1.61		2.26			BIN D2
		1.92		2.69			BIN D3
		2.29					BIN D4
Radiant Intensity	I_{E}	3.31		7.22	mW/sr		BIN A
		4.81		9.02			BIN B
		6.02		12.63			BIN C
		8.42		14.25			BIN D1
		12.07		16.95			BIN D2
		14.40		20.17			BIN D3
		17.17					BIN D4
Peak Emission Wavelength	λ _{Peak}		940		nm	$I_F = 20mA$	
Spectral Line Half-Width	Δλ		50		nm	$I_F = 20mA$	
Forward Voltage	V_{F}		1.2	1.6	V	$I_F = 20mA$	
Reverse Current	I_R			100	μ A	$V_R = 5V$	
Viewing Angle (See FIG.6)	$2 heta_{ ext{1/2}}$		16		deg.		

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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

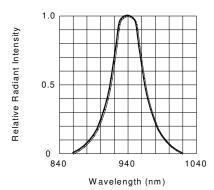


FIG.1 SPECTRAL DISTRIBUTION

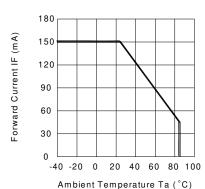


FIG.2 FORWARD CURRENT VS.
AMBIENT TEMPERATURE

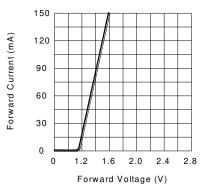


FIG.3 FORWARD CURRENT VS. FORWARD VOLTAGE

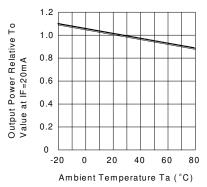


FIG.4 RELATIVE RADIANT INTENSITY VS. AMBIENT TEMPERATURE

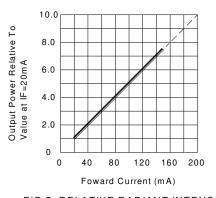


FIG.5 RELATIVE RADIANT INTENSITY VS. FORWARD CURRENT

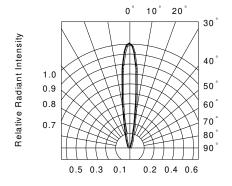


FIG.6 RADIATION DIAGRAM

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