

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-50-92-0001 Effective Date: 02/09/2001

Revision: C

LITE-ON ENG

03/14/2014

PRELIMINARY



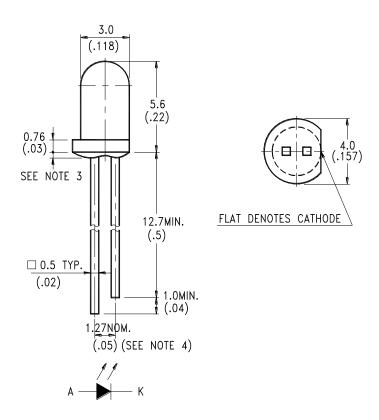
LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

FEATURES

- * SELECTED TO SPECIFIC ON-LINE INTENSITY AND RADIANT INTENSITY RANGES
- * LOW COST MINIATURE PLASTIC END LOOKING PACKAGE
- * MECHANICALLY AND SPECTRALLY MATCHED TO THE LTR-4206 SERIES OF PHOTOTRANSISTOR
- * THE LTE-209 SERIES ARE MADE WITH GALLIUM ALUMINUM ARSENIDE WINDOW LAYER ON GALLIUM ARSENIDE INFRARED EMITTING DIODES

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 1.0mm(.039") 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	90	mW		
Peak Forward Current (300pps, 10μ s pulse)	1	A		
Continuous Forward Current	60	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	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Aperture Radiant Incidence	Ee	0.184			mW/cm²	$I_F = 20 \text{mA}$
Radiant Intensity	$I_{\rm E}$	1.383			mW/sr	$I_F = 20 \text{mA}$
Peak Emission Wavelength	λ _{Peak}		940		nm	$I_F = 20 \text{mA}$
Spectral Line Half-Width	Δλ		50		nm	$I_F = 20 \text{mA}$
Forward Voltage	$V_{\rm F}$		1.2	1.6	V	$I_F = 20 \text{mA}$
Reverse Current	I_R			100	μ A	$V_R = 5V$
Viewing Angle (See FIG.6)	2 θ 1/2		16		deg.	

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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

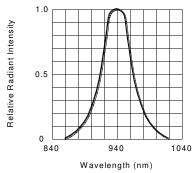


FIG.1 SPECTRAL DISTRIBUTION

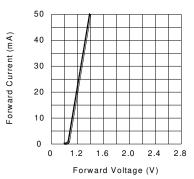


FIG.3 FORWARD CURRENT VS. FORWARD VOLTAGE

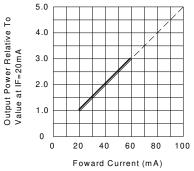


FIG.5 RELATIVE RADIANT INTENSITY VS. FORWARD CURRENT

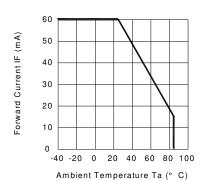


FIG.2 FORWARD CURRENT VS.
AMBIENT TEMPERATURE

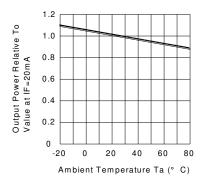


FIG.4 RELATIVE RADIANT INTENSITY VS. AMBIENT TEMPERATURE

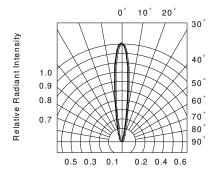


FIG.6 RADIATION DIAGRAM

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