

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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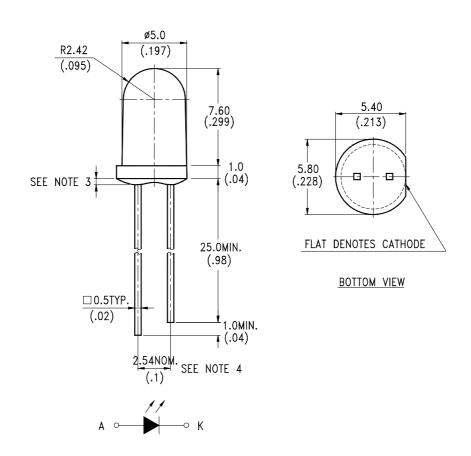
LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

FEATURES

- * SPECIAL FOR HIGH CURRENT AND LOW FORWARD VOLTAGE
- * HIGH POWER
- * AVAILABLE FOR PULSE OPERATING
- * WIDE VIEWING ANGLE

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	150	mW			
Peak Forward Current (300pps, 10 μ s pulse)	2	A			
Continuous Forward Current	100	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

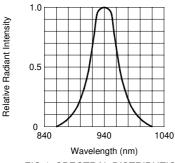
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION	BIN NO.
Aperture Radiant Incidence	Ee	0.64		1.20	mW/cm ²	$I_F = 20 \text{mA}$	BIN B
		0.80		1.68			BIN C
		1.12					BIN D
Radiant Intensity	I_{E}	4.81		9.02	mW/sr	$I_F = 20 \text{mA}$	BIN B
		6.02		12.63			BIN C
		8.42					BIN D
Peak Emission Wavelength	λ _{Peak}		940		nm	$I_F = 20 \text{mA}$	
Spectral Line Half-Width	Δλ		50		nm	$I_F = 20 \text{mA}$	
Forward Voltage	$V_{\scriptscriptstyle F}$		1.25	1.6	V	$I_F = 50 \text{mA}$	
Forward Voltage	$V_{\scriptscriptstyle F}$		1.65	2.1	V	$I_F = 250 \text{mA}$	
Reverse Current	I_R			100	μ A	$V_R = 5V$	
Viewing Angle (See FIG.6)	2 θ _{1/2}		50		deg.		

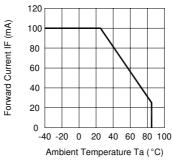
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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)





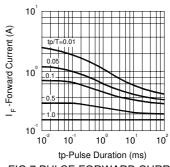
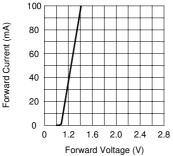


FIG.1 SPECTRAL DISTRIBUTION

FIG.2 FORWARD CURRENT VS. AMBIENT TEMPERATURE

FIG.7 PULSE FORWARD CURRENT VS. PULSE DURATION



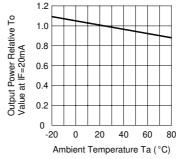
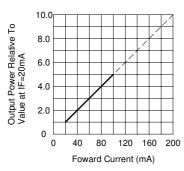


FIG.3 FORWARD CURRENT VS. FORWARD VOLTAGE

FIG.4 RELATIVE RADIANT INTENSITY VS. AMBIENT TEMPERATURE



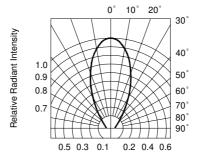


FIG.5 RELATIVE RADIANT INTENSITY VS. FORWARD CURRENT

FIG.6 RADIATION DIAGRAM

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