LEDTRONICS, INC.®

23105 Kashiwa Court, Torrance, CA 90505
Phone: (800) 579-4875 or (310) 534-1505 Fax: (310) 534-1424
E-mail: webmaster@ledtronics.com
Website: http://www.ledtronics.com

L200TG4A-12V

Hi-Eff Green

5mm, Flanged Cylindrical, 8.6mm Height

40° viewing angle

DWG BY: BL / GP 09-19-06
CHK BY: PL 07-17-07
QA: __ __-__-__
MFG: __ __-__-__
REVISION LTR: - 07-17-07

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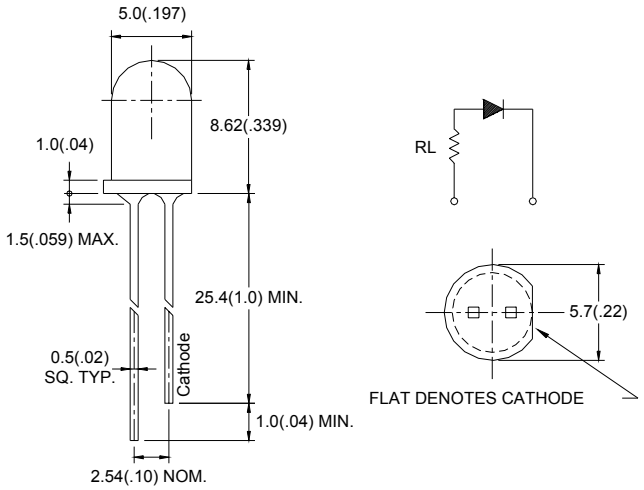
● Features:

1. Chip material: GaP/GaP
2. Emitted color : Green
3. Lens Appearance : Green diffused
4. For DC and pulse operation.
5. With current limiting resistor for 15V
6. TTL & CMOS compatible.
7. 5mm diameter package.
8. Internal Resistor 1400Ω
9. This product is RoHS compliant.

● Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25mm (0.01”) unless otherwise specified.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

● Applications:

1. TV set
2. Monitor
3. Telephone
4. Computer
5. Circuit board

● Absolute Maximum Ratings(Ta=25℃)

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	80	mW
Peak Forward Current*[1]	I_{FP}	150	mA
Operating Temperature	Topr	-40℃~80℃	
Storage Temperature	Tstg	-40℃~85℃	
Soldering Temperature	Tsol	260℃(for 5 seconds)	

*[1]Condition for I_{FP} is pulse of 1/10 duty and 0.1msec width.

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● Electrical and optical characteristics(Ta=25℃)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Current	I_F	V_F=12V	-	9.3	12	mA
Luminous Intensity	Iv	V_F=12V	-	24	-	mcd
Peak Wave Length	λp	V_F=12V	562	565	569	nm
Dominant Wave Length	λd	V_F=12V	565	568	572	nm
Spectral Line Half-width	Δλ	V_F=12V	-	29	-	nm
Viewing Angle	$2\theta_{1/2}$	V_F=12V	-	40	-	deg
Radiant Intensity		V_F=12V	-	-	-	μW/sr
Chromaticity Coordinates	X	V_F=12V	-	0.43	-	
	Y		-	0.56	-	

● Typical electro-optical characteristics curves

Fig.1 Relative intensity vs. Wavelength

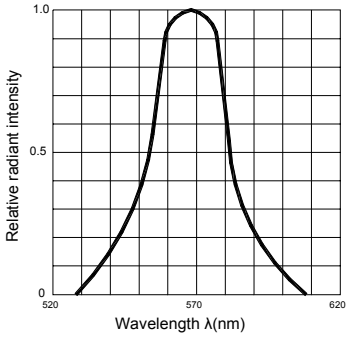

Fig.2 Forward current derating curve vs. Ambient temperature

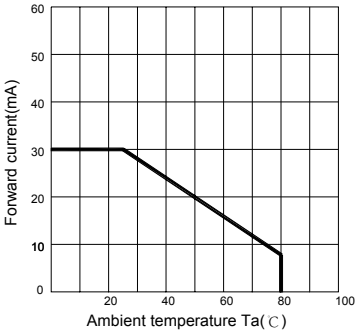

Fig.3 Forward current vs. Forward voltage

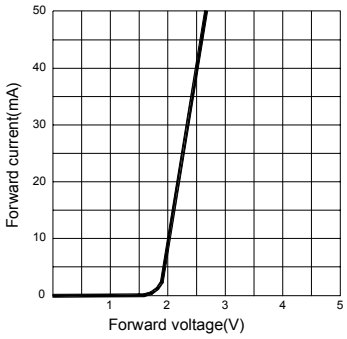

Fig.4 Relative luminous intensity vs. Ambient temperature

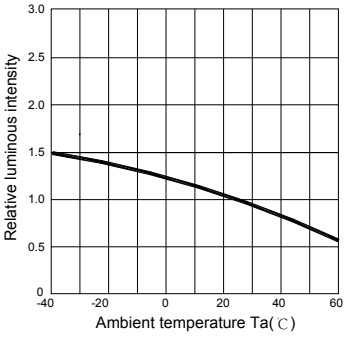

Fig.5 Relative luminous intensity vs. Forward current

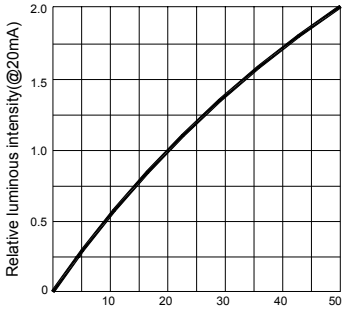

Fig.6 Radiation diagram