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

L200TY4A-12V

Yellow

5mm, Flanged Cylindrical, 8.6mm Height
40° viewing angle

DWG BY: BL / GP 09-22-06
CHK BY: PL 06-08-12
REVISION LTR: A 06-05-12

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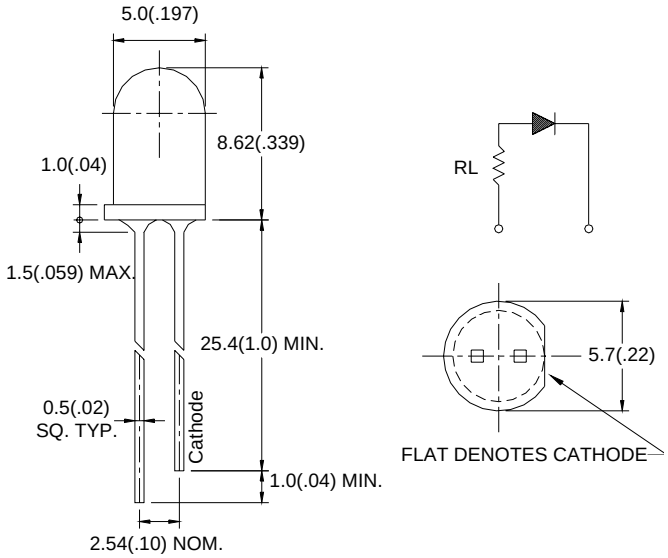
● Features:

1. Chip material: GaAsP/GaP
2. Emitted color : Yellow
3. Lens Appearance : Yellow 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℃ ~85℃	
Storage Temperature	Tstg	-40℃ ~100℃	
Soldering Temperature	Tsol	260℃ max (for 5 seconds)	
Hand Soldering Temperature	Tsol	350℃ max (for 3 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	-	40	-	mcd
Peak Wave Length	λp	V_F=12V	-	583	-	nm
Dominant Wave Length	λd	V_F=12V	585	586	592	nm
Spectral Line Half-width	Δλ	V_F=12V	-	36	-	nm
Viewing Angle	$2\theta_{1/2}$	V_F=12V	-	40	-	deg
Radiant Intensity		V_F=12V	-	80	-	μW/sr
Chromaticity Coordinates	X	V_F=12V	-	0.55	-	
	Y		-	0.44	-	

● Typical electro-optical characteristics curves

Fig.1 Relative intensity vs. Wavelength

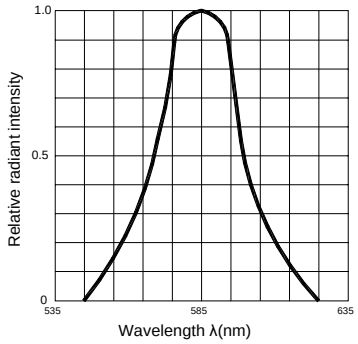


Fig.2 Forward current derating curve vs. Ambient temperature

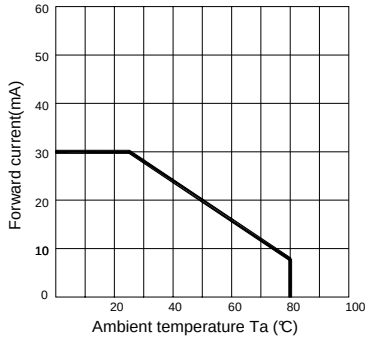


Fig.3 Forward current vs. Forward voltage

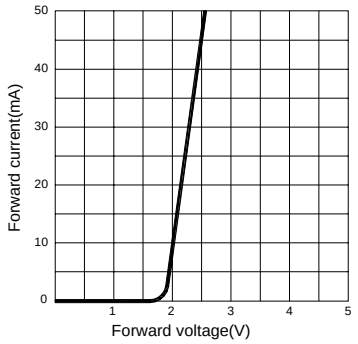


Fig.4 Relative luminous intensity vs. Ambient temperature

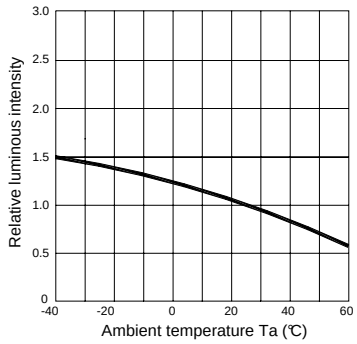


Fig.5 Relative luminous intensity vs. Forward current

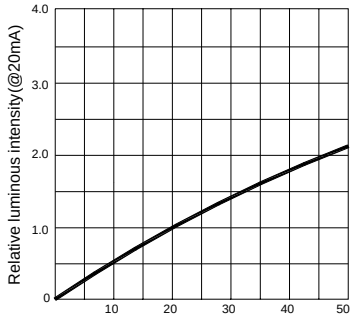
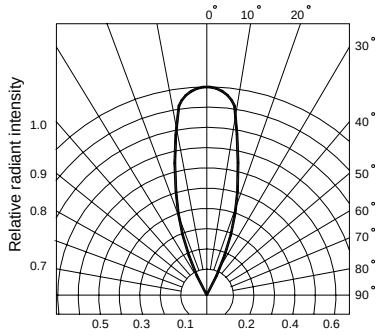


Fig.6 Radiation diagram



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● **DIP soldering (Wave Soldering)**

Preheating : 120℃ ,within 120~180 sec.
Operation heating : 255℃ ±5℃ within 5 sec.260℃ (Max)
Gradual Cooling (Avoid quenching).