

# L200TWGR4B

## Hi-Eff Green/Hi-Eff Red

5mm, Flanged Cylindrical, 8.6mm Height  
45° viewing angle

DWG BY:  
BL / GP  
09-17-12

CHK BY:  
PL  
09-17-12

REVISION LTR: -  
  
09-17-12

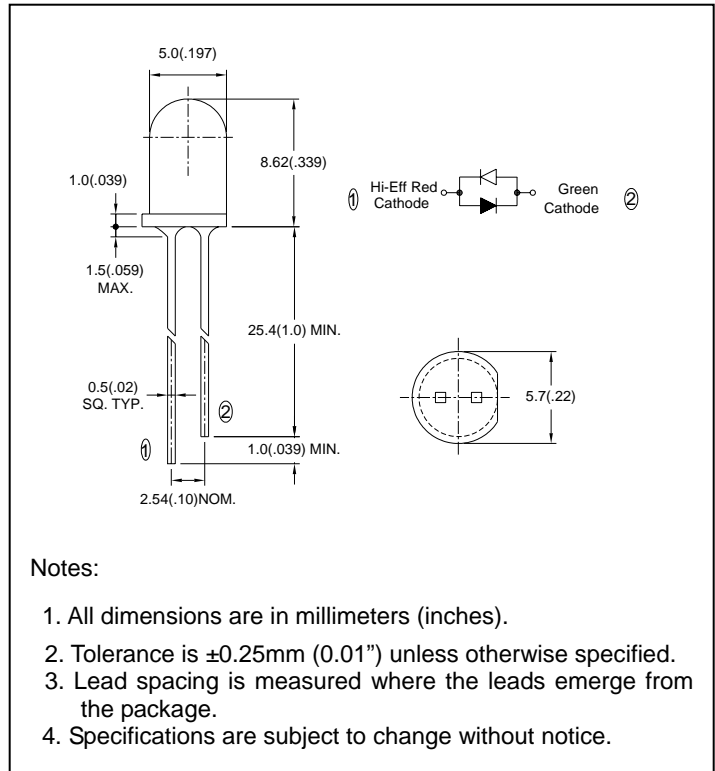
● **Features:**

1. Chip material: GaP/GaP (Green)  
and GaAsP/GaP (Hi-Eff Red)
2. Emitted color : Green and Hi-Eff Red
3. Lens Appearance : White Diffused
4. Low power consumption.
5. High efficiency.
6. Versatile mounting on P.C. Board or panel.
7. Low current requirement.
8. 5mm diameter package.
9. This product is RoHS compliant.

● **Applications:**

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

● **Package dimensions:**



● **Absolute maximum ratings(Ta=25°C)**

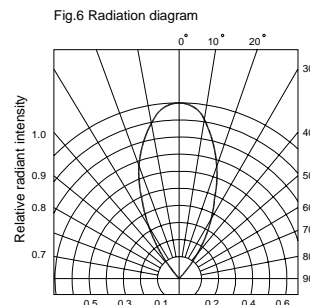
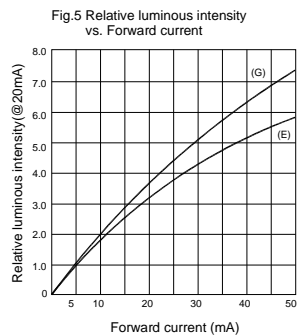
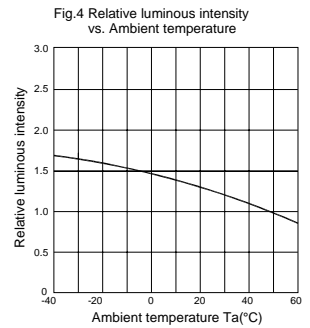
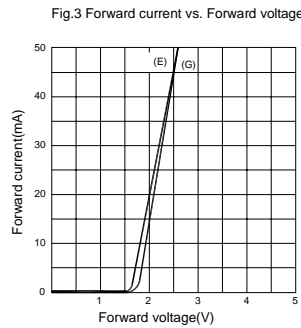
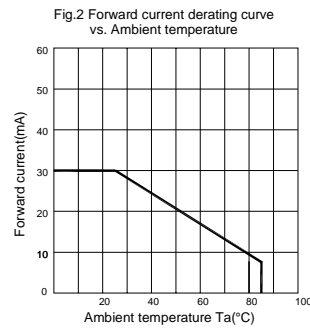
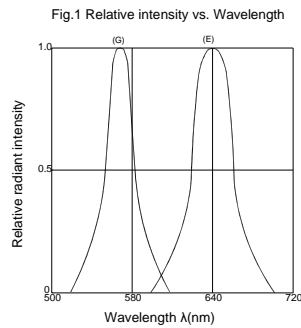
Parameter	Symbol	Green	Hi-Eff Red	Unit
Power Dissipation	Pd	80	80	mW
Forward Current	I <sub>F</sub>	30	30	mA
Peak Forward Current* <sup>1</sup>	I <sub>FP</sub>	150	150	mA
Operating Temperature	Topr	-40°C ~85°C		
Storage Temperature	Tstg	-40°C ~100°C		
Soldering Temperature	Tsol	260°Cmax (for 5 seconds)		
Hand Soldering Temperature	Tsol	350°C max(for 3 seconds)		

\*<sup>1</sup>Condition for I<sub>FP</sub> is pulse of 1/10 duty and 0.1msec width.

● **Electrical and optical characteristics(Ta=25°C)**

Parameter	Symbol	Condition	Color	Min.	Typ.	Max.	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =20mA	Hi-Eff Green Hi-Eff Red	-	2.2 2.0	2.6 2.6	V
Luminous Intensity	I <sub>v</sub>	I <sub>F</sub> =20mA	Hi-Eff Green Hi-Eff Red	8 5	20 15	-	mcd
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	Hi-Eff Green Hi-Eff Red	-	-	100	μA
Peak Wave Length	λ <sub>p</sub>	I <sub>F</sub> =20mA	Hi-Eff Green Hi-Eff Red	- -	568 640	- -	nm
Dominant Wave Length	λ <sub>d</sub>	I <sub>F</sub> =20mA	Hi-Eff Green Hi-Eff Red	564 617	- -	574 638	nm
Spectral Line Half-width	Δλ	I <sub>F</sub> =20mA	Hi-Eff Green Hi-Eff Red	-	30 40	-	nm
Viewing Angle	2θ <sub>1/2</sub>	I <sub>F</sub> =20mA	Hi-Eff Green Hi-Eff Red	-	45	-	deg
Chromaticity Coordinates	X	I <sub>F</sub> =20mA	Hi-Eff Green	-	0.43	-	
	Y				0.55		
Chromaticity Coordinates	X	I <sub>F</sub> =20mA	Hi-Eff Red	-	0.70	-	
	Y				0.29		

● **Typical Electro-Optical Characteristics Curves**



● **DIP soldering (Wave Soldering)**

Preheating : 120°C, within 120~180 sec.

Operation heating : 255°C ± 5°C within 5 sec. 260°C (Max)

Gradual Cooling (Avoid quenching).

