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L200TWRG4B-3A

Hi-Eff Red/Green

5mm, Flanged Cylindrical, 8.6mm Height
50° viewing angle

DWG BY:
BL / GP
09-24-07

CHK BY:
PL
05-02-08

QA:

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MFG:

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REVISION LTR: -

05-02-08

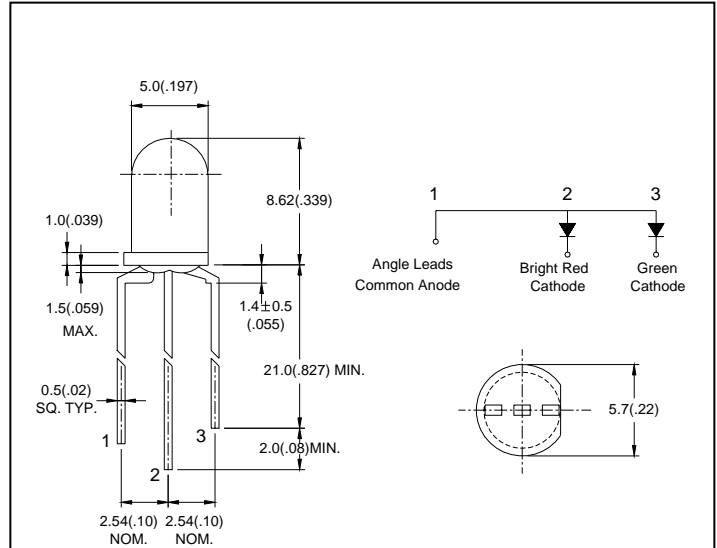
● **Features:**

1. Chip material: GaAsP/GaP (Red)
and GaP/GaP (Green)
2. Emitted color : Hi-Eff Red and Green
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:**



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (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.

● **Absolute Maximum Ratings(Ta=25°C)**

Parameter	Symbol	Hi-Eff Red	Green	Unit
Power Dissipation	Pd	80	80	mW
Forward Current	I _F	30	30	mA
Peak Forward Current* ¹	I _{FP}	150	150	mA
Reverse Voltage	V _R	5		V
Operating Temperature	Topr	-40°C ~80°C		
Storage Temperature	Tstg	-40°C ~85°C		
Soldering Temperature	Tsol	260°C (for 5 seconds)		

*¹Condition for I_{FP} 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 _F	I _F =20mA	Hi-Eff Red Hi-Eff Green	-	2.0 2.2	2.6 2.6	V
Luminous Intensity	I _v	I _F =20mA	Hi-Eff Red Hi-Eff Green	-	11 22	-	mcd
Reverse Current	I _R	V _R =5V	Hi-Eff Red Hi-Eff Green	-	-	100	μA
Peak Wave Length	λ _p	I _F =20mA	Hi-Eff Red Hi-Eff Green	- -	642 565	- -	nm
Dominant Wave Length	λ _d	I _F =20mA	Hi-Eff Red Hi-Eff Green	- -	625 572	- -	nm
Spectral Line Half-width	Δλ	I _F =20mA	Hi-Eff Red Hi-Eff Green	- -	43 30	- -	nm
Viewing Angle	2θ _{1/2}	I _F =20mA	Hi-Eff Red Hi-Eff Green	-	50	-	deg
Chromaticity Coordinates	X	I _F =20mA	Hi-Eff Red	-	0.70	-	
	Y				0.29		
Chromaticity Coordinates	X	I _F =20mA	Hi-Eff Green	-	0.45	-	
	Y				0.54		

● **Typical Electro-Optical Characteristics Curves**

Fig.1 Relative intensity vs. Wavelength

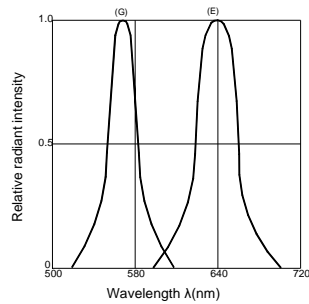


Fig.2 Forward current derating curve vs. Ambient temperature

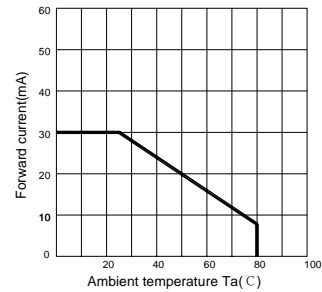


Fig.3 Forward current vs. Forward voltage

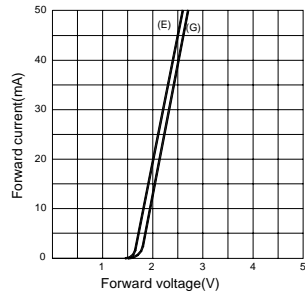


Fig.4 Relative luminous intensity vs. Ambient temperature

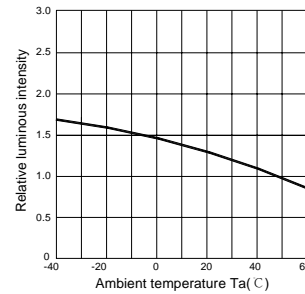


Fig.5 Relative luminous intensity vs. Forward current

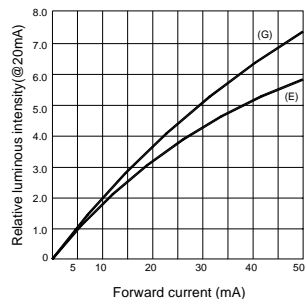


Fig.6 Radiation diagram

